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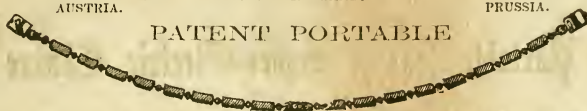
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J. L. PULVERMACHER'S



AUSTRIA. U. S. FRANCE. ENGLAND. BELGIUM. PRUSSIA.

PATENT PORTABLE



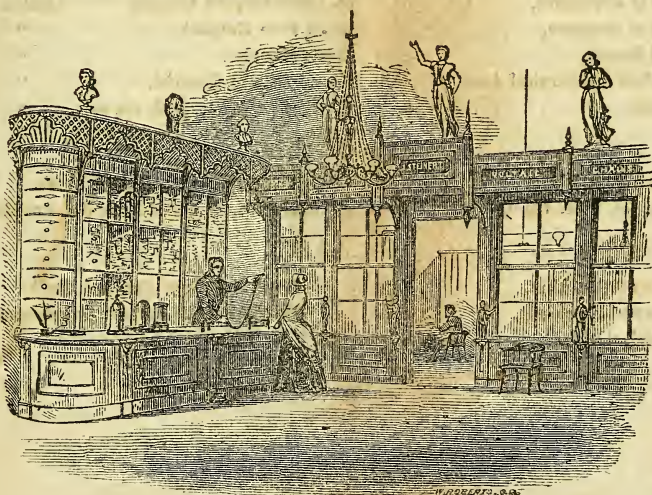
HYDRO-ELECTRIC VOLTAIC CHAINS.

SOLD BY

J. STEINERT,

SOLE AGENT

NO. 568 BROADWAY, NEW YORK.



AGENT IN

Electrotyped by Wm. FILLMER & Co., 123 Fulton Street, New York.

The Portable Patent Hydro-Electric Chains

Have been Exhibited, Acknowledged or Applied,

BEFORE THE FOLLOWING SCIENTIFIC BODIES:

UNITED STATES.

Academy of Medicine,	New York.	Belle Vue Hospital,	New York.
Franklin Institute	Philadelphia.	Wards Island Hospital,	"
Medical College, Crosby Street,	New York.	Blackwell's Island Hospital,	"
Medical College, Thirteenth Street,	"	Hospital,	Brooklyn.
Medical College, Fourteenth Street,	"	Hospital,	Albany.
City Hospital, Broadway,	"	Seaman's Hospital,	Staten Island.

ENGLAND.

Royal College of Physicians,	London.	St. Bartholomew's Hospital,	London.
Royal College of Surgeons,	"	Royal Free Hospital,	"
Pharmaceutical Society,	"	Guy's Hospital,	"
Provincial Medical and Surgical Asso.	"	King's College Hospital,	"
London Hospital,		Charing Cross Hospital, etc. etc.,	"

FRANCE.

Academie Imperiale de Medicine. Academie Nationale de Sciences.
Hospitals—Charite, Pitie, Val de Grace, Salpetriere, Hotel Dieu, St. Louis, Hotel des Invalides, etc.

GERMANY.

Imperial Faculty of Medicine,	Vienna.	Royal Faculty of Medicine, Berlin
Imperial Society of Physicians,		Hospitals—Allgerneines Krankenhaus, in
Wieden Hospital, etc. etc.		Wien.

P R E F A C E.

IN offering to the people of the United States a greatly improved and strictly scientific apparatus for the relief of local pains, and permanent cure of a class of diseases called "nervous," it is necessary that a brief and truthful history of the effects of the Patent Hydro-Electric Voltaic Chain should be given to all, together with a clear and definite description of their mode of use in every case, for which they are recommended.

It is a well known fact, that since the introduction of the P. H. E. Chains before the world in England, France, Germany, and many other countries in Europe, as well as since their introduction in the United States, the cures, which have been effected in Nervous Diseases, are UNPARALLELED in the annals of Medicine. All the certificates, which the short space of this pamphlet permits of recording and presenting to the reader, are truthful cases from intelligent persons, who have given their testimony in favor of the chains of their own free-will.

It is not claimed that every case of nervous disease can be permanently cured by the use of the Chains. Neither are all diseases cured by the judicious use of medicine, administered by the most learned and experienced physician. It has been ordained by a Wise Creator, and it is an unalterable law of nature that man must die,—that the harp of thousand strings cannot always keep in tune! Pain and Suffering, Disease and Death have been entailed upon mankind, as long as it has ever existed and doubtless ever will! Still it is no less the duty of the philanthropic Physician, the discoverer of new principles in the art of curing disease, or of any person in whatever situation in life, to bestow upon suffering humanity the result of his practice and experience, in relieving the pain and suffering, incident to mankind! What more pleasing task can there be, than assuaging the pains and ills of life—bringing health and life to the sick and afflicted, and joy and consolation to the desponding and disheartened?

We know that almost every person is skeptical in believing even one-half that has been said and written upon the subject of any remedial agent; AND WELL THEY MIGHT BE UNBELIEVERS, for more than one-half of the medical advertisements, which occupy a large share in most of the papers in the country are nothing more nor less than printed falsehoods, intended to deceive the public! A large majority of the certificates of cures are forged, the persons never existing, or else these testimonials were hired.

There is no article that has ever been presented to the American people, that has been received with such universal approbation, that has been so highly spoken of, and recommended, that can produce so many well authenticated certificates from the first scientific men, medical and otherwise, in the world, of its strictly scientific character and its beneficial effects in treating the diseases for which they are recommended, than the Patent Hydro-Electric Voltaic Chain!

They have been submitted to the people of the United States upon their own merits, asking no praise which they were not deserving of, but confident in the belief that they are destined to produce a complete revolution in the relief and cure of a large class of diseases called "nervous!" We are well aware, that some people will object to giving them a trial from the fact, that during the last ten years, SEVERAL PRETENDED GALVANIC CONCERNES have been before the public, which have failed to pro-

duce the least effect in even relieving, much less curing the complaint for which they were recommended. THE SAME MAY BE SAID of liquids, called Negative or Positive Electric Fluids, as no such thing is in existence in such a form; neither can electricity be supposed separated into different parts, the terms Positive and Negative being but imaginary, and representing a Negative Electric Fluid bottled up, is downright nonsense! Kind Reader:—Just fancy part of your nervous fluid—considered to be the same as “Electric Fluid,” preserved in phials and sold at so much a bottle, showing beautiful colors from its extreme age, and to fill up for any loss of it in your body at any time!

If the reader will take the trouble to inquire, he will find that no other Electrical Apparatus, producing an uninterrupted current of Electricity similar to Pulvermacher's H. E. V. Chains has ever been patented by the United States Government, or recommended by the most learned physicians in the world, and introduced as a remedial agent into almost every hospital in the world!

While the construction is simple, the amount of Electricity produced is VERY GREAT and the effects POWERFUL. Six links of the usual chain decomposing acidulated water in the Voltameter. Eight links will decompose pure water in the same instrument. A thirty link chain will produce sparks if applied to the temples, and two of them will produce perceptible shocks if the current be interrupted. The chain forms in fact a voltaic-battery; every link of it representing an element on the voltaic principle, and will therefore produce all the phenomena of a strong voltaic pile.

The patient will find CLEAR and FULL DIRECTIONS for the mode of applying the chain in every case, with a brief theory of the principal diseases; also auxilliary suggestions for the speedy relief of each complaint. While we strictly object to the use of taking SICKENING, DISGUSTING NOSTRUMS INTO THE STOMACH at the time of using the chain, strict attention to diet, exercise, bathing, pure air, etc., should be observed in all cases.

We have sought to introduce into the pamphlet as many valuable receipts and rules as the space will admit of, which will be found of great service to all. We trust that the reader will carefully peruse these few pages, here respectfully offered, and if the evidence is sufficient to induce a trial of the Electric Chain, we will cordially present our thanks for being able to convince people of the folly of the OLD and WORN OUT theory and practice, of making a drug-shop of the stomach for every ill “to which flesh is heir to,” and we firmly assure the public that WHAT HAS BEEN TOLD IS THE TRUTH, THE WHOLE TRUTH, AND NOTHING BUT THE TRUTH!!!

HISTORY OF THE ELECTRIC CHAIN.

Electricity, either in one form or another, has been used in the cure of disease to a greater or less extent from the earliest discovery of this wonderful and singular agent. Although, at first used but imperfectly, and but with little success, still after a series of patient and brilliant experiments, improvements took place, alterations and modifications occurred, bringing it under control of the inventive mind, and rendering it a passive agent, for good or evil, until it is now considered one of the greatest blessings, ever conferred on mankind. In proof of this, the history of the Magnetic Telegraph, the wonderful change that has been effected during the last few years, in sending intelligence, swift as thought, from the remotest part of the world, is sufficient to afford some idea of the value and benefit of Electricity to the world at large. From a wild unbroken steed, it has been taught to be submissive and obedient to the will of man; obeying his wishes and conferring countless blessings to untold millions.

With awe and wonder do we contemplate the lightning bolt from the heavens, unchained and wild, spreading death and destruction to everything in its course; yet how soon is fear changed to love, wonder and astonishment, when we behold the same powerful agent the playmate of the child, or amusing the learned philosopher in his secret laboratory, caused to fly to the uttermost parts of the globe, and like a carrier-dove returning again to him who willed it! Our astonishment and wonder is increased when we behold a few coils of metallic wire, around which hovers this unseen agent, ready to be applied to any suffering part of the human system, racked and tortured with pain and anguish, and instantly affording relief as if touched by an all-powerful hand!

Since the experiments of that great founder of Metallic Electricity Galvani, who discovered that by its application to the nerves of animals recently dead, life can be infused into them, with regard to all their usual movements, there has been discovered to exist a close relation between what is termed Vitality or Nervous Fluid and Electricity! That Electricity always pervades the human system to a greater or less extent, is no longer a doubt, and it is equally true that in certain Diseases, called Nervous, in which inflammation is absent, the healthy or natural amount of Electricity or Nervous Fluid in and around the part affected, is diminished in quantity and is also less equally distributed. This can be easily proved to any one by a simple instrument called Galvanometer, which readily shows the amount of Electricity present.

As soon as the natural amount of Electricity is restored to the suffering part, it soon regains its healthy condition. Every person has experienced a sensation of depression or lassitude before a summer shower, and also the happy change after a plentiful rain. Yet there are but few persons who have ever asked the reason of these phenomena! They can easily be accounted for, when we take into consideration the different amount of Electricity which is seen to pervade the system at different times. Before the shower, while the clouds are in the vicinity of the earth, a certain portion of Electricity of all the objects below, passes to the clouds above, which of course leaves the objects below in such a condition that they possess a lessened amount of Electricity; hence the sensation of dullness and stupidity at times when the state of the atmosphere is void of Electricity. Again after a great deal of rain, when the atmosphere is damp, it becomes an excellent conductor, absorbs Electricity from the human system to too great an extent, and disposes the human frame to Rheumatism until a sufficient quantity of Electricity be brought back again into the system. These causes and their effects are well known to natural philosophers and need no further comment.

For the last fifty years or more, the usual mode of applying Electricity for the relief or cure of disease, has been by some apparatus, that, producing sudden shocks, like the well known but much improved apparatus of Franklin, and such as are termed after their inventor, Galvanic Batteries, made from plates of copper and zinc, and excited by some acid, (nitric, sulphuric or also vitriol water.) The plates are connected by wires and applied with conducting handles, and an interrupted current

is thus produced in such a manner as to give a shock. Another mode of applying Electricity was the Electro-Magnetic, or Magneto-Electric apparatus, Revolving or Crank Battery, all laboring under the disadvantage of producing secondary Electric Currents, which cannot be controlled in the direction they may take, and they therefore nearly always neutralize any beneficial effect which they may sometimes produce. By all these apparatuses, Electric Shocks, however interrupted, or broken Currents are produced, BUT NEVER A CONSTANT AND UNINTERRUPTED ONE. A great objection to all the above Batteries, also are their liability to get out of order, the inconvenience of applying them, and the few cases which occur, in which they may be applied to advantage.

Every intelligent physician is aware that Electricity, when administered in the form of shocks through the system, always produces a momentary stimulating effect, like alcohol, and is followed by great weakness or debility, without producing a constant and stimulating power. An Electric Battery producing shocks, should never be used but in cases of suspended life, by drowning, by a stroke of lightning, by poisoning through opium in some of its forms, or in an overdose of Chloroform or Ether. It is often used with much benefit in Palsy, either local or general. From the fact, that the only satisfactory mode of applying Electricity in the treatment of Nervous Diseases, is by passing it through the part or organ affected in a CONSTANT AND UNINTERRUPTED CURRENT, with an apparatus of simple construction, which can be easily applied and worn by the patient, UPON OR NEAR the part thus affected, producing at the same time a powerful current if necessary, or lighter if required. Such an apparatus made its first appearance in Germany, in the year 1849, under the name and form of Pulvermacher's Patent Hydro-Electric Voltaic Chain. No sooner were these made known to the medical men of Germany, who sought every opportunity of testing their effects in the treatment of nervous diseases and in nearly EVERY CASE with complete success; then they at once took measures to have them secured to the inventor, in getting them patented from their government.

Not only were they used by physicians and also introduced in every hospital in Germany, where there are thousands of cases treated yearly, but the demand and sale among all classes of people was and is immense.

In the year 1850 they were introduced into France, and patented by that government, after being thoroughly tested by the Academy of Science and by the most celebrated Professors of Medicine in Paris, both in private and Hospital practice. They at once saw that the long sought for remedial agent had been discovered and a simple and convenient yet powerful mode of applying Electricity in such a form as to produce A CONSTANT CURRENT WITHOUT BEING ATTENDED WITH SHOCKS.

However, not only in France and Germany did they become so popular, but during the time of the World's Fair in London, in 1851, they became known in England by the influence of the celebrated Professors Golding Bird and Jonathan Pereira; both the most learned and scientific men in the art of curing disease, which England ever produced. They were at once thoroughly tried, in every hospital in the British Kingdom, adopted and recommended, and soon met with an UNPARALLELED sale. In one year alone, over more than Fifty Thousand chains were sold, and when we take into consideration that most of the chains were purchased and used by the intelligent and wealthy, it speaks volumes in their favor!

One year since they were patented by the United States Government, the rights having been secured in 1849 and first introduced by Mr. Steinert, the Sole Agent for their sale in the United States, into the city of New York, to the favorable notice of Professors Valentine Mott, J. M. Carnochan, W. H. Van Buren, Alfred C. Post, and H. B. Bulkley, gentlemen well known to the medical profession throughout the United States. Their opinion concerning the strictly scientific character of the chains, and their beneficial effects in the relief and cure of Nervous Diseases, will be found in another part of the pamphlet. Also will be subjoined a selection from the hospitals and colleges, in which they are applied, and the certificates of the physicians connected with them, in favor of their wonderful curative effect.

Having during the last few months established agencies for the sale of Pulvermacher's Electric Chains, in all the principal cities in the United States, we are in daily receipt of the most ENCOURAGING ACCOUNTS of the demand and sale of the chains, and also that in nearly every instance, the purchaser was SATISFIED with the beneficial results which they accomplished. Orders for single chains

from all parts of the United States, South America, Mexico, West Indies, etc., are being constantly received, and testimonials from the highest and most responsible sources, are pouring in upon us. Many of these will be found in the pamphlet, of persons well known, and in no instance, is a certificate recorded without the consent of the person.

The prices of the chains, at retail, are \$5, and \$3. The one consisting of 30 links, or elements, and the other of 18 links, or elements. Their mode of use will be found very simple, and they are so constructed, that they will last a long while, seldom get out of repair, and are ever ready for immediate use.

Some have objected to a trial of the chains, on account of the price; but if patients will take into consideration, THE DURABILITY of the chains, which are frequently as useful after years' service, as when purchased, and compare the price with that paid for a bottle of some WORTHLESS and DISGUSTING COMPOUND, which in nine cases out of ten, renders patients rather worse than better, it will certainly appear, that the price paid for a chain, is comparatively a paltry sum.

We have thus given a brief history of the invention of the Patent H. E. V. Chains; their general adoption in nearly every hospital in the civilized world, and the great and satisfactory results they have effected, and that thousands of nervous diseases, have been relieved or cured by their use.

We would ask the reader, CAREFULLY to read the THEORY, and the MODE, by which the Electric Chain cures nervous diseases, which follows hereafter.

THEORY OR REASON

Why Electricity is the most valuable Agent in Relieving and Curing all Nervous Diseases.

A Nervous disease is one that is generally unattended by inflammation; the pain being confined to no particular place, but rapidly wandering from one part to another, producing, for the time, the most intense sufferings, and then leaving, perhaps the entire system, to return at stated periods.

We have said that when a person is in perfect health, that the Electricity of the system is in perfect harmony, and equally diffused, no particular part or organ possessing a larger amount than another, and the nerves, which spread like a net-work over and through the whole body, act as conductors for the nervous fluid, or Electricity. It is supposed that the brain and spinal marrow are the origin or fountain-head, where the Nervous Fluid is produced, and from thence sent along the nerves to every part of the body. It is as necessary to health that the brain and spinal marrow should be able to throw off a required amount of Electricity, and that the nerves should be in a condition to allow it to pass along their course, and that every organ should receive its due proportion, as it is, that the blood should circulate freely through every part of the animal system.

As already mentioned, it can easily be ascertained, if a part or organ possess sufficient Electricity or not, or in what proportion. After thousands of experiments in different diseases, it has now become a well established fact, THAT IN THAT CLASS OF DISEASES CALLED "NERVOUS," THE SUFFERING OR DISEASED PART, POSSESSES ALWAYS A LESSENED AMOUNT OF NERVOUS FLUID, OR ELECTRICITY.

Every person has doubtless experienced the happy relief from the pain of a nervous headache, or a painful joint, by a gentle rubbing or friction of the head or joint. By this simple process, the pain is in many cases instantly removed, from the fact, that an extra amount of Electricity is produced on the spot by that act.

Now the Electric Chains produce the same result, in a more powerful degree, by being worn for a time over or upon the part affected. They furnish that necessary element, (Electricity,) for the organ, which the system can no longer supply; the difficulty being either in the brain or spinal marrow, where the Nervous Fluid is generated, or upon the other hand, the Chain will remove

to their proper tone, the nerves leading—like the wires of the Magnetic Telegraph—to the parts affected, which may be broken or unable to allow such Fluid to pass along their course.

From the above scientific explanation, the patient will readily understand the Theory or Reason by which the Electric Chains will instantly relieve the most acute pains, and effect a permanent cure in the worse cases of chronic Diseases.

The reader has only to bear in mind, that,

1, Pain, wherever located, is caused by a diminished amount of the Nervous Fluid, or Electricity, in the part or organ affected, and that a continuance of pain, is always attended with weakness and debility; and that,

2, By restoring the natural amount of Nervous Fluid, or Electricity, by the use of the Patent Hydro-Electric Voltaic Chain, the pain will be relieved, and the part, or organ, will be brought back to its natural condition.

General Rules to be observed in applying and using the Chains.

RULE 1. In all cases, the part or organ affected, should be between the two ends of the chain, which should always touch the skin, in order that the current of Electricity may pass from the white hook to the opposite end, THROUGH such part or organ. For example: if a chain is to be used for Chronic Rheumatism of the knee joint, the two ends of the chain should be applied upon each side of the joint, to cause an Electric current to pass right through, from one end of the chain to the other.

RULE 2. Before applying the chain, it should first be moistened, or drawn through common vinegar, or the Aromatic Fluid, which is to be had of all agents, and then applied as directed in Rule 1st. If the chain is to be worn constantly, it should be moistened twice or thrice each day, or so often as it becomes perfectly dry. But moistening it once, is sufficient to produce an Electric current for several hours. The chain should be washed or ripced in pure water every day, and wiped dry. It ought never to be folded up as long as it is wet, because it would then act upon itself. Neither should the chain touch another part of itself as long as it is worn on the body.

RULE 3. In applying the chain, the body of it, or links of which it is composed, need not touch the skin as long as the ends or buttons do so, but may be allowed to be outside of the clothing, or it may be enveloped in a cloth or oil silk. Sometimes the moisture of the vinegar or of the prepared aromatic fluid is unpleasant to the patient, and hence this advice.

RULE 4. If after being worn for a time, the part upon which the button has been applied should become sore or blistered, (as it often happens,) a thin piece of wet muslin may be placed between the button and the skin. If the current of Electricity is too strong for the patient, the vinegar or Aromatic Fluid may be diluted, or a certain amount of water added, until the patient can comfortably endure it. The power of the Electric current may easily be thus regulated.

RULE 5. If patients wish to convince themselves, that there is a perceptible current of Electricity produced by the chain, they may easily be satisfied by moistening a chain of 30 links, and placing the button attached to the yellow hook to their forehead, keeping the other in the hand. A less effect will be perceived with a smaller chain.

The following principles must ALWAYS be kept in view:

A. THE CURRENT TRAVERSES THE BODY THE SHORTEST WAY POSSIBLE FROM ONE END OF THE CHAIN TO THE OTHER.

B. THE CURRENT HAS, IN GENERAL, TO TRAVERSE THE NERVES AFFECTED, OR THE SEAT OF DISEASE.

For further particulars see the special disease, and the two diagrams with numbers.

REMARK:—The principal advantage of the Chain, above any modern improvements, is that it can be worn DIRECTLY UPON THE SKIN. By wearing it in contact with the body, the moisture of the skin keeps up a continual Electric current, in the same way as if it was a weak acid.

Rheumatism, Lumbago, Gout, etc.

Rheumatism is too well known to require an explanation of what the disease is, for there are but few persons who have not experienced the aches and pains, common to this complaint. Rheumatism is usually confined to the Joints, or the Muscles of the chest and back, and is considered and classed by physicians, as a Nervous disease, from the fact that the pain often changes from one part to another, with the rapidity of lightning. By applying the chain for this painful and lingering complaint, as directed in the General Rules given, and explained more fully and clearly by referring to the figures on the diagrams, for each particular location, the most acute pain is almost instantly relieved by the first application of the chain, and a permanent cure produced after wearing a chain for a few days. In many cases of long standing, it is necessary that its use should be continued for several weeks, in order that the suffering part should regain its natural amount of Nervous Fluid, or Electricity, and thus be restored to its healthy condition. A cure is more rapidly effected if strict attention be paid to diet, which should be vegetable, of a plain nutritious kind ; avoiding FATTY articles, and all ALCOHOLIC drinks, unless it be porter or ale.

An attack of acute Rheumatism, when it is confined to a joint, should be treated at first by wrapping around the joint, a cloth wet with cold or ice water, and this should be changed as often as it becomes warm. In the meantime the chain should be applied as directed, in order to relieve the pain. After the case has continued for several days, and the joint has become weakened and debilitated, the joint should be kept enveloped in oil silk, or several folds of flannel cloth, and the chain used as before. No greasy liniment should ever be used ; but gentle rubbing of the part with a dry hand, should be made use of, every day. Patients should avoid all active cathartics, but the bowels should be kept in a natural state, by the use of fruits, or a Seidlitz-powder. Blistering and bleeding is always injurious, and is not at the present day resorted to, by our most scientific physicians. The treatment, we have given above, is the one made use of in the different hospitals where the chains have been used extensively. The number of cases which have been greatly relieved or cured permanently of Rheumatism, are more than have ever been effected by any other means ; and besides, when we take into consideration, that in a large majority of these cases, nearly everything else had been tried before resorting to the chains, the fact will speak for itself!

Below will be found a case or two, and references of cures in New York, but hundreds of them may be seen if application be made at the General Office, 568 Broadway, New York :

NEW YORK, November 6th, 1852.

MR. J. STEINERT :

No. 58 East 28th Street.

SIR,—In April last I suffered of violent rheumatic pains in my left arm, and could not move it ; my hand was swollen very much, and I felt very acute pains in touching it. I sent for my physician ; in waiting for him my wife reminded me, that our neighbor spoke to her of Pulvermacher's Electric Chains, which, he said, were of excellent effect in toothache, headache, in rheumatism, and similar affections.

I then sent for the chains, and had fixed one end on my head, and the other on my arm. The softest touch caused a great deal of pain at first, but after having the chains applied for about ten minutes, they diminished very perceptibly. I was able to touch my hand, and the pains in my arm were now considerably less. The operation was performed with a chain of sixty links. Now a small chain of twenty-four links was fixed on my arm (having previously been moistened with vinegar,) and an India rubber cloth wrapped round. I then went to bed. Next morning my hand was still swollen, but the pains in my hand and arm were nearly gone ; the long chain was then applied again for fifteen minutes, and afterwards the short one again fastened to my hand. The morning following the swelling and pain had disappeared, and I have not suffered since then, from rheumatism. My physician, whom I had informed of the application of the chains on the first evening, did not prescribe

anything, and I cannot ascribe my recovery, but to the curative powers of the Hydro-Electric Chains.

I am glad to certify this to you, and remain, Sir,
Yours, Respectfully,

JOHN COOK.

NEW YORK, October 11th, 1852.

424 Broadway.

MR. J. STEINERT,

I beg to inform you by the present, that, after having used Pulvermacher's Hydro-Electric Chains, according to your instructions, for five days, I perfectly recovered from my rheumatic attack, although this could not be effected by any other medical aid, for which I had sent.

I wish to express to you my sincerest thanks, and remain, Sir,

Respectfully, Yours,

SOPHIA LYON.

NEW YORK, February 7th, 1853.

J. STEINERT, Esq.,

DEAR SIR :—It affords me much pleasure to inform you, that the Hydro-Electric Chains I had of you last week, for the use of my boy, are of an unexpected remedy. Much as he was troubled with rheumatism, both on legs and arms, yet by wearing these valuable chains for less than twenty-four hours, he was relieved, and now is entirely free from pains.

I therefore cannot but most confidently recommend them to all persons who may be troubled with rheumatism.

I remain, yours, very respectfully,

HENRY AMERICAN, Schoolhouse, 128 Delancy Street.

SOME REFERENCES MORE.

Mrs. Cogle, 45 Clinton Street, New York,	Dr. W. H. Jarvis, St. Paul, Minnesota.
Mr. Tyler, 49 Whitehall Street, “	Mr. Grinby, in Sing Sing, N. Y.
“ Schlich, 29 Howard Street, “	Mr. Dan'l Hanford, Norwalk, Conn.
Mrs. Zander, 98 Wooster Street, “	“ John McCuen, 217 Market Street, Philadelphia, Pa. etc. etc.
Mr. Kyle, 8, 54th Street, “	

Neuralgia of the Face, and Neuralgic Diseases in General.

This most painful of all Nervous Diseases, is usually confined to one side of the face; still sometimes it extends to both sides, when the pain and suffering is intolerable. The causes which produce this complaint are various. Sometimes a sudden cold. In such cases as a decayed tooth, it should of course be extracted, when the pain will soon cease. But in a large majority of cases, no perceptible reason for the pain can be given. The health is generally good, and the disease is strictly local; the excruciating pain continuing for a time in one part, and then suddenly changing to another. Sometimes it is confined to the temple, near the eye, or in the region of the upper or lower jaw.

Perhaps there is no Nervous Disease, where there is such a total absence of Nervous Fluid about the parts affected, as in cases of Neuralgia. Notwithstanding that the face is abundantly supplied with nerves, in case of Neuralgia, scarcely a trace of Electricity can be discovered by the Electrometer. We know, it is generally supposed, that because there is increased sensibility of the part, that the

Nervous Fluid, or Electricity will be there in abundance ; but such is not the case, for as has been previously stated, PAIN IS ALWAYS FELT WHERE THE NATURAL AMOUNT OF ELECTRICITY IS DIMINISHED, AND SUBSIDES WHEN THE NATURAL AMOUNT IS RESTORED! In applying the chain for the cure of this disease, a 30 link chain should be used—placing the button, which is attached to the yellow hook in the palm of the hand and applying the other button upon the part where the pain is located ; or it may be passed gently over the entire surface of the face until the pain is removed. In a majority of cases the application of the chain for a few moments only is necessary to produce relief from pain, but in several instances—as intercostal neuralgia—neuralgia in the side—several hours elapse, before the pain leaves the part. The chain should be applied as often as the pain returns. In order to help the action of the chain the patient should keep in door, not expose the face to cold damp currents of the air, which are apt to retard the action of the chain.

Blisters or hot stimulating applications should be used in no instance. Below will be found testimonials and references of cures, from persons well known in the vicinity where they live. We have a quantity from America and Europe, but space does not permit of copying many, and they must necessarily be left out.

For Neuralgic Diseases in general,—as Intercostal Neuralgia, or Neuralgia in the sides,—for Neuralgia in the limbs or uterus, the chains must of course be applied locally, in such a manner that the Electric Current can pass through the suffering part, according to the general rules, and on the principles before mentioned.

MR. J. STEINERT :—

I suffered for two months under a dreadful Neuralgia. No remedy could be found to give me relief, until I applied the celebrated “ Pulvermacher's Electric Chains,” which relieved me entirely from all pains of Neuralgia.

M. GOLDBACHER,

NEW YORK, December 14th, 1852.

74 Bowery.

SOME MORE REFERENCES.

Mrs. Heinlein, 63 Avenue B, New York.

Mr. Charles Foley, Metropolitan Hotel, New York.

“ Groser, 27 North Moore Street, “

“ James T. Kenny, Ellicottsville, N. Y.

Nervous and Sick Headache.

There are doubtless more persons troubled with the nervous headache, than with any other complaint. Indeed it is so well known, and experienced, that it is unnecessary to describe the symptoms attending it. It is generally supposed that Nervous Headache is often produced by some derangement of the stomach ; sourness or acidity. BUT SUCH IS NOT THE FACT. Derangement of the stomach is caused by the condition of the head. The Nervous Fluid, or Electricity is unequally distributed ; the brain losing a portion which is sent to, and received by the stomach. That such is the truth is easily proved by applying the Electrometer, which indicates that the Electricity of the brain is lessened in quantity, while that of the stomach is increased, which INDUCES the acid condition of that organ. This is considered the only true theory of the cause of Nervous Headache.

Pains of the head often take place from congestion, or inflammation, and is denoted by redness of the face, fullness of the blood vessels about the eyes and temples, with a sensation of throbbing. In these cases, until after the inflammation has subsided by the thorough use of Ice or Cold Water, THE CHAIN SHOULD NEVER BE USED, for the pain would then be increased. But when the pain is untended with inflammation, they never fail to relieve it almost immediately. Many persons, who have been subject to a nervous periodical headache, have been freed from these attacks by using a 30 link chain for a short time, only during the day, or allowing it to remain attached to the temples, as indi-

cated on the diagram, on each side of the head. There are many persons, particularly ladies, who can nearly tell the exact time, when they may expect an attack of the Nervous Headache. In such instances, they should commence the use of the chain TWO or THREE days before the expected attack, for in a large proportion, such attacks DO NOT RETURN. The most convenient mode of using the chain as said in General Rules; take the button, which is attached to the yellow hook, in the palm of the hand, and with the other hand covered with something dry—cloth or leather glove—apply the opposite hook or button, over the region of the pain, by gently drawing it from one temple to the other. This should be continued for several minutes, until the pain ceases. The chain can be worn also as represented in the diagram, but the patient should keep QUIET in all cases.

There is no remedy ever yet discovered, that possesses the power and virtue in almost INSTANTLY RELIEVING the most painful complaint, as the H. E. V. Chains. Their advantage over the Electric Batteries, which always produce sudden shocks, is acknowledged by all who have tried them. By producing a uniform and continual current, the natural amount of Nervous Fluid, or Electricity is produced by the chains, which is extended to the part affected. Hundreds and hundreds of cases have been cured in New York alone, and in no instance have they failed to relieve the pains, as if by magic.

Below will be found a few well authenticated testimonials of cure of this disease, taken from those we have in possession.

NEW YORK, October 9th, 1852.

MR. J. STEINERT:

333, 4th Street.

SIR,—I am happy to inform you that I have applied your Hydro-Electric Chains with great success in nervous headache. In about fifteen minutes after the application, I WAS RELIEVED ENTIRELY, and have suffered very little since. It is with much pleasure that I understand that you are about opening an office in this city, for the sale of the chains. Wishing you the success you so richly deserve, I remain,

Yours, truly,

E. MOLLESON.

Mr. Phil. Bennet, 713 Water Street, New York. Mr. James Blackhall, Third Street, New York.

" Henry Hart, 464 Broadway,

" Mrs. Horton, Jamaica, L. I.

" Oatman, 44 Ann Street

"

Paralysis, (Palsy,) Diseases of the Spine, etc.

The causes which generally produce Paralysis, or Palsy, are usually in the brain and spinal marrow, and arise from debility and chronic inflammation, followed by the softening of the substance which composes it. The usual symptoms which produce an attack of the symptoms, are pain, more or less severe, located in the base of the brain or along the course of the spine. Oftentimes the pain is so slight as to attract but little attention from the patient, being the forerunner of perhaps but a very slight attack of Palsy; the first symptoms of which are noticed as WEAKNESS or INABILITY to use the limb or part affected. This condition gradually increases, until complete palsy takes place, and the limb becomes lessened in size; skin shrunken and cold, attended sometimes by a sticky perspiration.

When one entire side is paralyzed, the cause is located in the base of the brain OPPOSITE to the side affected. When confined to an arm, the pain is experienced along the upper part of the spine, for the reason, that the nerves, which supply the upper extremities, pass out from that region. When Palsy takes place in the legs, the lower part of the spine is affected, for the same reason as above.—In palsy of either the upper or lower extremities, the TRUE CAUSE OR ORIGIN being in the SPINAL

MARROW, as the place out of which the nerves proceed. It becomes softened, unable to allow the nervous fluid or Electricity, generated by the brain, to pass beyond that point; or in other words, the connecting CHAIN is broken, which generally conducts the Electric current. A well known example is the breaking of the wire of the Magnetic Telegraph; although the electric current can be produced on the two ends, its current is interrupted in its course.

For curing this complaint, a chain of the largest size, say 60 links, or two of 30 links, should be made use of.

If two chains be taken, attention must be paid that HOOKS OF THE SAME COLOR MUST NEVER BE CONNECTED; but only yellow and white, showing negative and positive poles of the chain. If a yellow hook and a white one are connected, everything is right, giving a greater force. Sometimes it is necessary that two separate chains should be used at the same time. A long continued use should be patiently persisted in—strict attention to diet—exercise—bathing and friction on the spine and skin, riding and walking in the open air, change of scenery and climate, and freedom from care and anxiety.

The patient is requested to follow strictly the following directions in applying the chains for the cure of Palsy:

If the case is one of PALSY OF THE SIDE, including the arm and leg, one end of the button attached to the white hook should be applied to the upper part of the spine, CLOSE TO THE HEAD, and the other button upon the lower part of the spine, NEAR THE HIPS. This is done by passing around the neck and body the elastic band accompanying each chain. By thus placing the chain, AN ELECTRIC CURRENT IS PRODUCED AND PASSED from the brain to the lower part of the spine, which touching the principal nerves, is sent through the entire system. For Palsy of the arm, one end of the chain may be applied upon the nape of the neck, and the other end upon the under surface, near the arm-pit; for the reason that the nerves, which supply the arm, are near the end of the chain in that locality; hence the effect of the chain is increased. The chain, however, can be changed, from time to time, to other parts of the arm, while one end should remain upon the spine, where it was first applied. The patient should not be discouraged if no perceptible relief is experienced AFTER THE FIRST FEW DAYS; but in a majority of cases the patient soon feels stronger and gradually regains the use of the part paralyzed. The use of the chain should be steadily persevered in, and in NO CASE left aside, until after months of trial. All WEAKENING DEBILITATING medicines should be religiously avoided, as the system requires the most nourishing treatment.

The number of cases cured of Palsy in England, France and Germany since the introduction of the H. E. V. Chain are HUNDREDS, and in this country we daily receive letters from parties, stating that they have been greatly relieved, or else permanently cured. Below we add some testimonials:

NEW YORK, May, 16th, 1853.

J. STEINERT, Esq.,

DEAR SIR,—One month ago I caught cold, which paralyzed one side of my face, and by the application of your Electric Chains, at the end of three weeks I find myself perfectly cured.

Yours, Respectfully,

JAMES HOWIE, 643 Hudson Street.

REFERENCES.

Mr. Elbert S. Kip, 334 Fourth Street, New York. Mrs. Greenwood, Bethel, Connecticut.

“ P. Murphy, 253 Bowery, “

Weak Joints.

To cure weak joints, the chains should be applied upon each side of the joint, and worn almost constantly until strength has returned. In a majority of cases, the patient experiences relief and receives strength by the first application ; but in order to insure a cure, the chain should be worn for several weeks. In NO SINGLE CASE, when used according to directions, has the patient failed to be cured. The stimulating effects of Electricity is beautifully manifested in this complaint, and its superiority of treatment over the practice of applying the FILTHY BOTTLE LINIMENT of the day, is clearly observed.

HUNDREDS OF TESTIMONIALS of cure from Europe and America :

WORCESTER, (MASS.) June 9th, 1853.

"The first one we sold was to a lady, who has given us the liberty of refering people to her, as she has received great benefit from the use of it. The difficulty was a relaxation of the muscles of her fingers and a swollen wrist.

CALDWELL & HILL.

REFERENCES.

Mrs. Philips, No. 231, Sixth Avenue, New York. Miss F——r, De Pau Row, New York.

Dyspepsia.

This common complaint is mostly confined to the wealthy, or refined of our land. It is the great scourge of the "high livers," the intemperate in eating and drinking—of those who eat much and labor little—whose God is the stomach ; the shrine at which they worship the "good things of this life." The laboring man, whose food is plain and nutritious ; who "earns his bread by the sweat of his brow," is a stranger to this disease, and his sleep is never disturbed by the racking pains of indigestion.

Dyspepsia is ALWAYS produced by OVER WORKING OF THE STOMACH, hot stimulating articles and food, abuse of alcoholic drinks, swallowing food but half masticated, too close attention to business, insufficient exercise, high living and indolence.

It is unnecessary to describe the usual symptoms, for they are too well known, and the disease is so common, that it would be a matter of superfluity.

In speaking of the cure and the treatment of this disease, its proper mode of cure is wholly included in the advise of the celebrated Dr. Abernethy : "EAT BREAD AND EARN IT !" "Eat less and labor more, be temperate in all things, cultivate a happy, cheerful disposition, laugh and grow fat !" Exercise upon horseback, over-land trip to California, change of climate and scenery, and so forth. Another most important rule, which should be religiously observed, is to AVOID ALL MEDICINES TAKEN INTO THE STOMACH of all and every kind. We have no sympathy for the persons who indulge in grasping at every NASTY COMPOUND which is recommended, which ignorant pretenders offer them, and deem it nothing more than natural, that their disease should continue, and that they should suffer on, while life lasts ! Any person who will persist in making a drug-shop of their stomach, for the purpose of curing their disease, is certainly devoid of COMMON SENSE ; and he who recommends such a course, a fit subject for the asylum. NO CURE OF DYSPEPSIA WAS EVER EFFECTED by such a course

of treatment, and in all probability never will be, for it is neither founded on a correct theory, nor is it in accordance with the laws of physiology.

In recommending the use of the H. E. V. Chain, for the relief of the troublesome symptoms common to the disease, and for the purpose of effecting a permanent cure, be it understood, we do not desire them to be used alone, without strictly observing the rules mentioned above. That the H. E. V. Chain IS a VALUABLE help in curing this disease, is no longer a matter of doubt; for we have abundant evidence from the first and most celebrated physicians in the world. By the application of this TONIC and INVIGORATING power of Electricity, the stomach is assisted in performing its NATURAL FUNCTIONS, digestion is promoted, pain is dispersed, the whole system is strengthened, and a cure is almost sure to be accomplished!

In using the chain, a long one of 30 links ought to be taken, and should be applied by placing the button attached to the yellow hook immediately over the stomach, and the other end near the base of the brain, for the reason that the nerves which pass to the stomach, proceed from the brain and spinal marrow in that locality. The body of the chain should be passed under the arm, as indicated in the diagram No. 11. The chains should be applied immediately after eating, and allowed to remain for two hours at a time. It requires a LONG and PATIENT trial of the chain, in order to effect a permanent cure; but in most cases, the patients have expressed themselves relieved even AFTER A FEW DAYS' TRIAL! Digestion takes place more readily, the bowels assume a more natural condition; the general health is improved and cheerfulness takes the place of despondency!

We have numerous certificates of relief and cures, from both Europe and America; a few of which we give below:

NEW YORK, March 3d, 1853.

DEAR SIR:

No. 5 State Street.

In compliance with your request, I take pleasure in stating your chains work admirably, etc. etc.

S. A. VAUGHAN.

REFERENCES.

Mr. M——r, East Broadway, New York.

Mr. Alfred Cox, 219 South Street, Philadelphia.

Mrs. Francis Griffin, St. Louis, Missouri.

Palpitation of the Heart.

The great number of cases, which have been instantly relieved of this disease, will justify us in speaking with the GREATEST CERTAINTY of their curative powers, in such complaints. Palpitation of the heart, is always a spasmodic action of the muscles, which compose that organ, and hence it is strictly a NERVOUS DISEASE. Sometimes it is produced by acidity of the stomach, and Dyspepsia often causes that complaint.

The mode of applying the chain is to attach, by means of the elastic band, one end of a chain directly over the heart, and the other upon the spine, between the shoulders; allowing the body of the chain to pass either over or under the arm. It is necessary that the chain should be used only for a short time, as the unpleasant sensation is soon dispelled. If after a thorough trial, in the manner above mentioned, no relief is felt, the end of the chain which was previously placed on the spine, between the shoulders, may be changed and placed on the stomach, there to remain a short while. Almost INSTANT relief was then always afforded, if the other mode had failed to produce it. If ONE does not succeed the OTHER should be resorted to.

NEW YORK, February 25th, 1853.

I have, for several years, been affected with a nervous complaint, or palpitation of the heart, in as

much as to disable me to attend to business. Having heard of Dr. Steinert's Electric Chains, and being willing to resort to anything that might relieve, I was induced to purchase one of the chains, and since the time, I have been wearing the same, I have experienced no difficulty whatever.

Having confidence from experience in using the H. E. V. Chain, I take pleasure in recommending the same to those afflicted with Nervous Complaints.

C. A. ABEL, 474 Broadway, New York.

REFERENCES.

Mr. Jos. R. Rimsby, 111 Carlton Street, New York. Mr. M. C. Klingensfeld, 11th Street, 2d door from Chestnut Street, Philadelphia.

Liver Disease and Dropsy.

There is no disease more prevalent in the United States, than what is termed Liver complaint, and there is no disease for which such a host of Nostrums, are recommended, Pills, Pukes and Purges, equally potent in making the disease worse rather than better, and it has become a common practice with many ignorant physicians : and Heaven knows there are more than the law requires—when they are not able to discover the character of the disease, under which the patient is suffering, to say that it is liver complaint, and the usual routine of harsh-drash—cathartics, calomel, scammony, followed by quinine and arsenic, are resorted to, and they generally succeed in either destroying life entirely, or render their victim a poor, sickly object, dragging out a life of suffering and misery. Dropsy, in a majority of cases, is caused by obstruction in the blood-vessels of the liver, preventing the free and natural flow of blood through that organ. It is then called abdominal dropsy ; for the water of the blood is confined to the abdomen.

The object required, in order to effect a cure, is to get rid of the obstructions in the liver, which can only be done by stimulating the NERVES OF THE LIVER. This is most effectually accomplished by the STIMULATING TONIC power of Electricity, and we defy any person living to treat a case of CONGESTION of the LIVER, attended by dropsy, so SUCCESSFULLY by the old and worn-out killing system of drugging, as can be done by the proper use of Electricity. The evidence in favor of this modern treatment of Liver-complaint and Dropsy is OVERWHELMING, and no person possessed of common understanding can reasonably doubt it!

It is also a fact, that there is more medicine taken for Liver-complaint, than for all other diseases combined ; for every old woman has her favorite remedy, which she "never knew to fail!" Yet Liver-complaints are more common now, than they were twenty years ago, and are INCREASING with fearful rapidity from year to year.

In using the H. E. Chain for a disease of the liver, it should be applied as indicated in diagram 10, and according to the general rules laid down. In Dropsy, the chain should still be applied as for Liver-complaint, for the cause is in the liver.

In connection with the use of the chain, bathing should always take place daily, brisk friction over the entire surface of parts effected, particularly over the liver and bowels. Fatty food should never be eaten ; but a strictly vegetable diet must be enjoined to the patients. Riding on horseback, and gentle exercise in the open air, are of the greatest value as curative agents. Above all things avoid taking medicine into the stomach, as you would avoid the deadliest poison. Reference—

MRS. GIBBINS, 40 Rivington Street, New York.

Toothache and Earache.

Toothache is almost instantly relieved for the time, by holding in the palm of one hand the button which is attached to the yellow hook, and with the other hand covered with a dry glove, applying the other button upon the face IMMEDIATELY over the seat of the pain. Nervous pains around the eye are relieved in the same manner, by applying the button upon the part effected. Earache is relieved by applying the button BEHIND the ear, or one in front and the other behind it. Persons, who suffer much from those distressing complaints, will find in the H. E. Chain a sovereign remedy, which seldom fails to relieve and cure the most obstinate cases. It POSSESSES THE ADVANTAGE of always being ready for use, and can be applied in a moment. The chains do away with the practice of using greasy ointments, or salves of hog's lard and turpentine, and are more effectual in dispelling pain, WHEREVER located, than opium or any of its compounds.

NEW YORK, August 4th, 1852.

No. 60, 28th Street, East.

MR. J. STEINERT :

SIR—I beg to inform you that your Hydro-Electric Chain has been of the greatest benefit to me in my rheumatic toothache.

You are aware how much I suffered since a length of time, but, thanks to your Chains, I have not had any attacks since several months.

I remain, Sir,

Yours, with esteem,

CATHARINE WARD.

REFERENCES.

Mr. Taylor, 37 Barclay street, New York.

B. Vanderwoort, Bergen Point, N. J.

Mrs. Hammerschlag, Lexington-st., Baltimore, Md.

Internal Nervous Disease.

The Heart, Lungs, Liver, Kidneys, Stomach, and Uterus, as well as every internal organ, is subject to Nervous Pains. Severe Neuralgic Pains may occur in either of those organs, without any change having taken place in their structure. They usually occur suddenly, without any perceptible cause, and remain only for a longer or shorter period. The same want of Nervous Fluid, or Electricity, in the part effected, is in nearly every case the only scientific reason that can be given; for it has been satisfactorily proved, that when an UNINTERRUPTED current of electricity is passed through the organ thus effected, THAT THE PAIN IS SUDDENLY RELIEVED. In applying a chain for the relief or cure of Neuralgia of any internal part, refer to the general rules laid down.

General Debility, General Nervousness, Wakefulness, Lassitude, Mental Debility, Spinal Diseases.

These conditions of the system are produced from inability of the Brain and Spinal Marrow to produce the necessary amount of Nervous Fluid or Electricity, and are usually attended by NO LOCAL disease of those organs.

The causes which prevent the brain and spinal marrow from generating, or producing the required amount, of Electricity, are the same, which DEBILITATE or WEAKEN the entire system. Excessive labor, either physical or mental; insufficiency of nutritious food; confinement in impure air; depres-

sing emotions ; indulgence in secret vices ; sickness of long standing ; excessive use of drugs ; opium ; mercury ; or any of the mineral or vegetable poisons, etc.

There is generally more or less severe pain experienced along the course of the spine, which constitutes what is called Spinal Disease—the bowels are costive, there is loss of appetite, and lassitude of the entire system.

The object to be attained, in the treatment of the above mentioned complaints, is to FURNISH OR RESTORE to the nervous system, particularly to the spinal marrow, AN ARTIFICIAL AMOUNT OF ELECTRICITY. This is accomplished by the H. E. Chain, which is the MOST POWERFUL TONIC AND STRENGTHENING AGENT known to the medical world ! A thirty link chain should be worn along the entire length of the spine, by attaching the button with the white hook to the upper part of the spine, NEAR THE BACK OF THE HEAD, and the other end on the lower end of the spine, near the hips. All the necessary attentions to improve the general health should be carefully observed—pure air ; exercise ; early rising ; bathing ; wholesome diet ; freedom from care and anxiety ; avoidance of all nostrums, put up in bottles or boxes, which debilitate the system ; and if the person is aware of the secret causes, which have produced the weakened condition of body and mind, avoid such practice, and sin no more. Unless a person has experienced the REVIVING and STRENGTHENING effect of Electricity, when passed along the spine, he can form but a little idea of the happy and agreeable change through the entire system, produced by a thirty link chain, when attached as above directed. We do not know of one SINGLE INSTANCE, among the many hundreds who have used them for the cure of the above disease, that have failed to be benefitted, even after a few days trial, and have spoken of their happy results in the highest terms of praise. They can be considered a sovereign remedy in all diseases of the Spinal system, and are certainly destined to work a complete revolution in the medical world with regard to the treatment of Nervous Disease.

Mr. J. STEINERT :

NEW YORK, September 10th, 1852.

24 Allen street.

DEAR SIR—As I have no time to give you a call, I inform you by writing that the two Hydro-Electric Chains furnished to me by one of your doctors (on the 2d of September), which I wore, one fixed along the spine, the other round the abdomen, have entirely brought back my health. You know in what a pitiful state of debility and emaciation I was, unable to digest anything, with a dreadful diarrhoea, which could not be stopped by any medical advice. The second day after the application of the chains I began to eat with appetite, and in the course of ten days all symptoms had disappeared, my bowels grew regular, and the whole system acquired more strength every day. I am perfectly well now, and beg you to accept my best thanks for having restored my life.

I am, Sir,

Your obedient Servant,

CHARLES MEDLER.

BALTIMORE, 22d July, 1853.

At the time commencing using it, she was much debilitated, and had much fever. She had not slept for some time. The application relieved her very materially, strengthening her, reducing her pain, and relieving her from fever, etc., etc.

HENRY MARSHALL,

265 Baltimore-street

REFERENCE. Mr. R. Javon, 9 South Eleventh-street, Philadelphia, Pa.

Female Diseases.

Under this head, we shall only speak of Prolapsus Uteri (falling of the womb), and Amenorrhœa (suppressed menses). The first is a mechanical disease, produced by various causes, which have a tendency to weaken the general system. The only proper and scientific mode of treating this formidable disease is by making use of such remedies as will STRENGTHEN and INVIGORATE. All internal medicines should generally be AVOIDED, and the use of the usual supporters, and other similar instruments, should but cautiously be resorted to, as rendering the cure often more difficult. A supporter, if it be misplaced, produces but PRESSURE, instead of acting as a support, and the object

sought and desired is not obtained by their use, hence those who are the most successful and celebrated in the treatment and cure of this disease do not resort to them. Of late years Galvanic Supporters have been brought into use, and the success attending them, has been considerable; but WHATEVER curative power they possess, can only be ascribed to their but weak ELECTRIC CURRENT, which somewhat strengthens the muscles or natural supporters of the Uterus. But they are heavy and inconvenient, and there are but few persons who can endure their use for a great length of time. So GREAT and SATISFACTORY have been the results of the H. E. Chains, in the immediate relief of the most aggravating symptoms, and a permanent cure when persevered in, that they cannot be too highly recommended. The ease with which they are worn, weighing but two or three ounces, and the strong current produced, being more powerful in their constant current than any Galvanic Battery or Galvanic Supporter, recommend them as the FIRST REMEDY OF THE AGE in diseases of Uterus. The mode of applying them in cases of Prolapsus Uteri, Amenorrhœa, or Leucorrhœa, is by attaching one end of a thirty link chain over the region of the Uterus, and the other (the white hook) upon the spine, in the small of the back, or if pain should be felt in the side above the hip, it can be placed upon the painful part.

For a painful Ovarian Tumor, it should be placed as last directed; and in all those cases of long standing, where the patient has become emaciated with pain and anxiety, a H. E. Chain will never fail to give almost INSTANT relief, although a cure can never be expected by any treatment, save that of the knife.

We boldly assert, that the chains are more effectual in relieving the pains and unpleasant sensations common to these diseases, than opium, or any of its compounds taken internally, of any kind whatever.

Since they were first introduced into the City of New York, many certificates of a permanent cure have been freely given, by ladies of the highest standing, who had previously used nearly every kind of supporter, without receiving the least benefit. Equally as favorable testimonials are daily being received from the country, in America, as well as in Europe, where the disease is more frequent than in the United States. No person who is suffering under the distressing complaint of Prolapsus Uteri or with either of the diseases before mentioned, should, as they regard health and happiness, FAIL to give the H. E. Chains a thorough trial, and we confidently affirm, that these complaints will be finally cured, if used as directed.

NEW YORK, November 10th, 1852.

123 Chambers street.

(Handed to me by Dr. Zeller.)

J. STEINERT:

SIR—In returning, through your doctor, your Hydro-Electric Chains, I take the opportunity to inform you that I am perfectly well. All the troublesome nervous pains, which poisoned my life, have entirely disappeared, and certain functions, the irregularity of which brought on all these evils, are now in a perfectly regular state. If I had known your valuable remedy last summer, many a dollar could I have saved from the hands of apothecaries, for pills and mixtures, which I was obliged to swallow to no purpose.

I am, Sir,

Yours, Respectfully,

SOPHIA BUHL

REFERENCE. L. Schucking, M. D., Washington, D. C., corner of E. and Eleventh Streets.

Hysterics. Fits. Epilepsy.

This disease is always accompanied by some uterine difficulty, generally congestion of the blood-vessels around that organ. An application of the chain should be made by placing one end (white hook) upon the LOWER part of the spine, and the other upon the lower part of the abdomen. The chain can also be changed by attaching the ends to the upper and lower parts of the spine, applying it again in the manner above described, after wearing it a few days, from the top to the lower part of the spine. The spasms common to that complaint are in nearly every case IMMEDIATELY CHECKED, and a return prevented.

Many cases of long standing Epileptic Fits have been permanently cured, by wearing the chains for a few weeks only. They should be applied when the usual symptoms appear, which denote an attack of the disease.

Since writing the above, we have received several testimonials from different States, from persons who have been cured of Epileptic Fits by their use. We add one below, received from well known gentlemen in Louisville, Kentucky. Almost every day we are sending chains by mail to persons requiring them for Epilepsy and Fits, and in no single instance, thus far, in a hundred cases and more, has the patient failed to either express himself as greatly benefitted, or effectually cured.

LOUISVILLE, Ky., 20th October, 1853.

SIR—We feel flattered in the result of what we have already sold, and a case of EPILEPSY is worth noticing, where we had induced the family to apply the chain, a lad of about seventeen years of age has labored under Epilepsy for a number of years, and the frequency and severity of the fits appeared to be undermining his constitution, and visibly affecting his mind. Hearing of your Electric Chains, his parents felt inclined to give them a trial, and procured one at the price of four dollars, and the disease yielded to its influence immediately, so much so, that he had but one fit during a month, when previous to using it, he often had three fits in twenty-four hours; and it is our opinion, that he would NOT HAVE HAD THE FIT NAMED, had he not broken the chain, which broke the current of the Electric Fluid.

Yours, very Respectfully.

RAYMOND & PATTEN.

New York, November 9th, 1852.

195 Mulberry Street.

MR. J. STEINERT :

SIR—I write you these few lines to inform you that since I have used Pulvermacher's Hydro-Electric Chain (received by one of your doctors), I am getting better every day. The nervous—hysterical—colics are entirely gone; my bowels are regular; and I have not had a single hysterical fit since the 25th of October. My physician, who laughed at me when I put your Chain on at first, will be one of its most enthusiastic protectors, it having had a better effect in two weeks, than all his antispasmodics, narcotics, &c., in half a year.

I am, Sir,

Thankfully Yours,

JULY GREINER.

REFERENCES.

Mr. M. R. Moore, 91 Wooster Street.

J. T. Bragg, Brooklyn, twenty-three years teacher in New York, (case amongst his friends.)

Amaurosis (Blindness) and Deafness.

Hundreds of cases of these diseases have been cured by the Electric Chains during the last year. Both diseases are generally caused by a paralyzed state of the OPTIC and AUDITORY nerve, and the nerves which are spread out upon the drum of the ear. In order to effect a cure, a stimulating and strengthening treatment is required, and the chain possesses that power to a wonderful degree.

In using the chain, for partial or perfect blindness, one end of the chain should be applied, around the eye, and the other on the neck (white hook).

For deafness, apply one end of the chain, immediately behind the ear, and the other upon the same spot behind the opposite ear, which allows a current of Electricity to pass from one end to the other.

The most severe pain in the ears are at once dispelled by the first application.

AMAUROSIS.

Dr. J. M. Morris, of Auburn, N. Y., restored the eyesight of a woman, who was nearly perfectly blind by the exclusive use of the H. E. Chain

REFERENCES.

Mr. J. Minerecker, 245 Clinton Street, New York. Miss M—a H—n, Philadelphia.

DEAFNESS.

NEW YORK, 20th August, 1853.

Having tried your Electric Chains in the treatment of deafness (nervous deafness), oblige me by selecting for Mr. Connah such a chain as you deem proper for his case.

Very Respectfully,

A. C. CASTLE, M. D.,
246 Fourth Street.

REFERENCES.

Mr. John Stratten, 56 West 32d Street, New York. Dr. Moschzisker, Baltimore, Md.

Bronchitis. Loss of Voice. Asthma.

These diseases are frequently relieved by the first application of the Chain. The mode of applying the Chain in Asthma is by attaching the white hook end to the spine, near the base of the brain, and the other upon the chest, frequently changing the latter from one place to another.

For Bronchitis and loss of voice, or hoarseness, apply the chain upon the throat, or vocal organ, and allow it to remain for several hours each day. The white hook end to be attached on the top of the spine, at the back of the head. In most instances of severe hoarseness, the difficulty is soon REMOVED, and the voice reassumes its natural condition. The Chains are becoming also a popular remedy FOR DISEASES OF THE LUNGS, and many have been highly pleased, with their effects, who were laboring under incipient consumption.

Reference. Mr. Tyler, 49 Whitehall Street, New York.

St. Vitus Dance.

This is a strictly nervous disease. It has its origin in the Spinal Marrow, and is a disease usually confined to young persons from the age of ten to sixteen years of age. The person so affected possesses no control of the voluntary muscles, or muscles which are contracted by the will. The sudden contractions of these muscles in the entire system are familiar in every case of this disease. But little pain is experienced, and the general health often remains good.

In applying a Chain for St. Vitus Dance, a thirty link one should be made use of, by applying the white hook end upon the upper part of the spine, and the other end upon the lower part, let it then be worn until a cure is effected. The bowels should always be kept in a natural condition, by means of some of the Saline Cathartics, as Epsom Salts, or Soda and Rhubarb. Bathing and the Shower Bath should be daily used, as well as exercise in the open air when the weather will admit. As this disease is caused in many instances by irregularities of the female system, the chain may be worn sometimes in such a manner, that the white hook is attached to the spine, and the yellow one to the lower part of the abdomen.

There have been many cases of this disease cured by the use of the H. E. Chain, in different parts of the United States, during the last few months.

SCIATICA,

Or Nervous Complaint of the Hip Joint.

This most painful disease is quite common in our northern latitude. It is produced by exposure to wet and cold, over exercise, which in some measure alters or changes the course of the Nervous Fluid, or Electricity, from passing along the large Sciatic Nerve of the hip and thigh. In this case a thirty link chain should always be used, as it requires a large amount of Electricity, in order to relieve the pains, which is the most intense. In using the chain, the white hook should be attached upon the spine, just above the hips, and the other over the region of the pain. If blisters are produced by the chain, it facilitates the cure. The chain should be worn DAY AND NIGHT, until a cure be effected, as it often requires several weeks before the Nervous Fluid is equalized about the joint. The first application PRODUCES RELIEF FROM PAIN, or at least renders it much less severe or excruciating.

When the pain extends to the muscles of the thigh, and below the knee, the chain should extend from the hip to the hollow of the knee, or from the knee to the ankle, and fixed as indicated also in the diagram, No. 15.

Impotence and General Debility of the Genital Organs.

The H. E. V. Chains cannot be too highly praised or recommended to THOSE who are suffering from these complaints. It is not our province to speak of the causes which produce this prevalent

complaint, for there are but few persons, so affected, who are not well aware of its cause. Over indulgence and self abuse may justly be considered the true causes in nine cases out of ten. The effects upon body and mind, weakness and debility of the entire system, premature old age, and an early death follows the sad history of these diseases.

Both are strictly diseases of debility, and require the most STRENGTHENING and INVIGORATING treatment. Medicine taken into the stomach NEVER DID NOR EVER WILL accomplish a cure ; on the contrary, it will increase the trouble, and render the case one beyond the control of human skill. Any physician who tells you he will cure you by a course of Medicine, you better give him up at once, he is wicked by deceiving you.

We have never known the H. E. Chain fail to produce rapid and marked relief from the most troublesome symptoms, and a permanent cure, if used for a sufficient length of time. The disease is one of slow approach, and the treatment must be patiently PERSEVERED IN ; while a strict regard to diet, early rising, exercise, bathing, and regular employment of body and mind, religious avoidance of the practices which caused the complaint, must be avoided in every case. We will undertake to cure almost every case, unless the system has become a perfect wreck.

In applying a chain for this disease, the white hook end should be applied upon the small of the back, and the other under the Testes, upon the Perineum. It should be applied at night, upon going to bed, and allowed to remain there during the night. Hundreds have been cured of this disease during the course of this year in this city.



In conclusion allow us to say, that we have occupied as much space, INDEED MORE THAN WE HAVE INTENDED, HAVING SCARCELY ROOM FOR THE MOST NECESSARY REFERENCES, as the pamphlet would possibly admit, in laying before the reader a list of diseases in which the H. E. V. Chain may always be applied with great advantage ; their mode of use in every disease ; and we have also added sometimes testimonials or references for want of space. A great many more we might have given, but for these reasons.

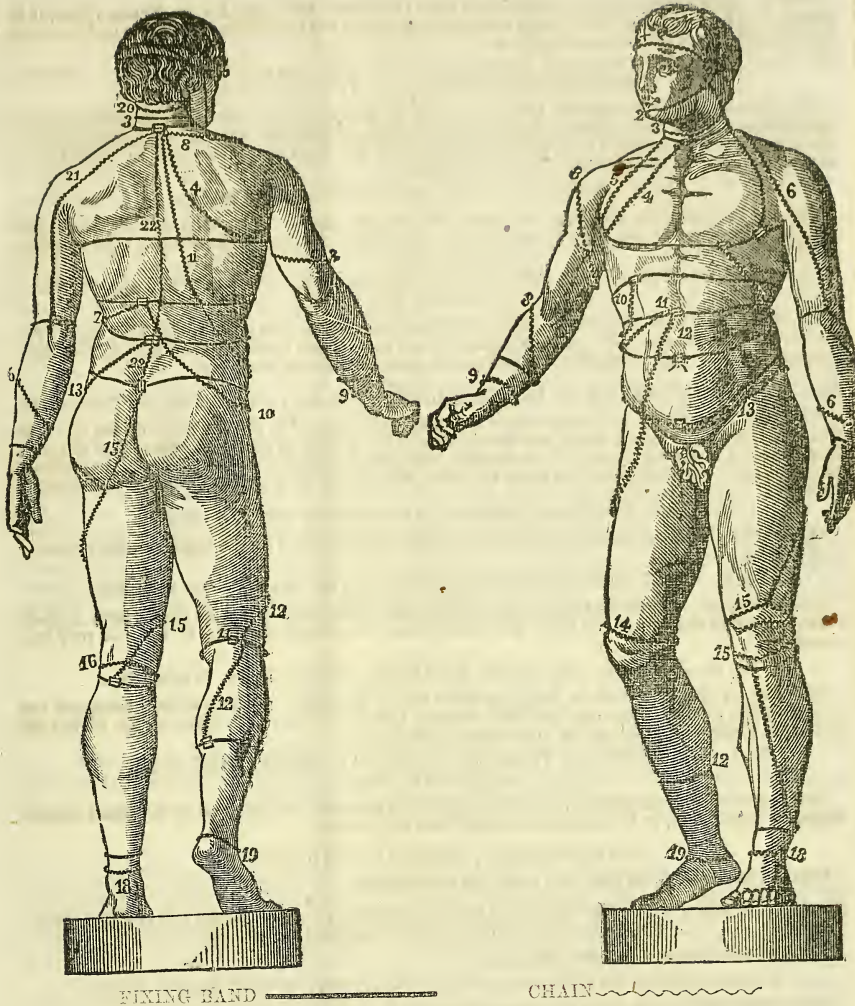
We have not advised the chain in EVERY COMPLAINT to which man is subject to, but mention only those for which they have ALREADY PROVED A SOVEREIGN REMEDY, namely, diseases affecting the Nervous System, both GENERAL AND LOCAL. As already mentioned, in recent or acute inflammation of any organ or part, they should never be used, until the inflammation has subsided, and the disease has assumed a chronic form. The theory, by which they claim to possess the power of removing pain, and also acting as a powerful and safe tonic to the whole nervous system, has already been given. They are equally applicable to all classes of persons, for old and young, for ladies and gentlemen, children and adults, and can be used with safety at any time, when applied according to directions.

THE SUCCESS WHICH HAS ATTENDED THEM in England, France, and Germany, as well as in this country, is UNPARALLELED in the history of medicine ; and the evidence and testimony from the most learned medical men in the world, of their really wonderful control over Nervous Disease, is sufficient to satisfy the most incredulous.

Their adoption in all the principal hospitals on both continents, and the fact that they are the only Electric article of the kind that has ever been patented by the United States Government, adds still more evidence in their favor. It is not too much to say, that at the present day Electricity is attracting more attention as a curative agent for Nervous Diseases, than any other remedy ; and that the H. E. V. Chains are considered by the most eminent medical men as the most useful discovery of the nineteenth century ; and that they are destined, sooner or later, to work a total revolution in the treatment of a large class of diseases.

Thousands are daily giving them a trial, and multitudes are constantly experiencing the benefit and the blessing, which they confer upon suffering humanity.

We add two diagrams, showing how the same chain may be applied or worn in different diseases, followed by an enumeration of complaints in which the chain has generally to be fastened as described. The number on the figures refer to the enumeration of each disease specified.



FIXING BAND

CHAIN

No. 1.—NERVOUS HEAD-ACHE, WEAK EYES, AMAUROSIS, &c.

For the relief of momentary head-ache, it is sufficient to apply a longer chain, well soaked with fluid (the hands covered with leather gloves), for one or two minutes, with one end (the last link) on each side of the head, where the pain is situated, and when the prickling sensation is felt strongly, remove one end and apply it instantly again, varying the places of application, so that the current circulates in various directions through the part affected. For weariness of the eyes, colds, &c., where the nerves want only a momentary impulse, the application is the same; but for long standing and deeply seated diseases of this character, a small chain has to be worn for some time, as shown in the drawing, varying the application occasionally, by making the current traverse the upper part of the spine, as shown in No. 3.

No. 2.—TOOTH-ACHE AND TIC DOULOUREUX.

To relieve acute tooth-ache, use a long Chain for a short period, as prescribed for head-ache, but applying one end either on the cheek, the front or back of the gum, or in the tooth (well cleaned out), according to the situation of the pain; and applying the other end for pains in the upper jaw, on the upper part of the cheek; for pains in the lower jaw, under the ear. (For proper conductors, see under Accessories.) To reduce swelling, lingering pain, and, in short, cure the disease, and prevent the return of the acute pain, fix a small Chain, as shown in the diagram, or pass a longer Chain round the neck, so that the two ends are placed on each side of the spine, and the rest of the Chain hangs down over the chest, on the principle of No. 3.

For Tic Douloureux the application is the same ; but when the Chain is worn for some time, it is preferable to fix one end on the spine, and the other end on the painful place, and now and then one end on each side of the spine, as in No. 3.

No. 3.—COLDS, AND CHRONIC AFFECTIONS OF THE ORGANS OF SENSE. CROUP, SPASMODIC AFFECTIONS OF THE WINDPIPE.

The current circulates through the upper part of the spine, and affects the numerous nervous ramifications of the neck, generally producing perspiration, especially when a longer Chain is used ; when the respiratory organs are implicated, the ends of the Chain are placed on the spine, two or three inches lower down than shown in the drawing.

No. 4.—HOOPING-COUGH, BRONCHITIS, ASTHMA, &c.

One end in front of the windpipe, the other end on the spine. Action mild, but constant. The end in front may now and then be applied one and a half to two inches lower down than shown in the drawing.

No. 5.—PULMONARY AFFECTIONS, AND DISEASES OF THE CHEST, SHOOTING PAINS, &c.

One end of the Chain on each side of the chest, the intermediate part passed behind the neck. For dry chronic coughs, pains, &c., place occasionally one end in front upon the chest, passing the Chain over the shoulder, and fixing the other end on the spine between the shoulders.

No. 6 and 8.—RHEUMATISM OF THE SHOULDER, ARM, &c. ; PARALYSIS OF THE ARM.

One end of the Chain to be applied to the spine, the other end to the extremity of the arm, the Chain being wound loosely round the limb, so that it lies as near as possible to the seat of the pain. If the pain is in the lower part of the shoulder, the pole on the spine must be lower down between the shoulders. For local paralysis, apply the chain occasionally for a few hours along the spine, as in No. 22.

No. 7.—CARDITIS AND ATONIC AFFECTIONS OF THE HEART.

One end on the spine, the other in front on the left side, including all the nervous ramifications.—Action Mild.

No. 9.—WEAK WRISTS, CONTRACTIONS OF THE HAND AND FINGERS.

The current has to circulate through the internal part of the fore-arm. Mild shocks from a chain battery, through the fingers and hand, from time to time, accelerate the cure in cases of very long standing.

No. 10.—BILIOUS AND LIVER DISEASES, CONGESTION, PILES, Etc.

One end on the right side in front, the other end on the spine. In cases of fully developed and retained piles, let the current now and then circulate through the pelvis, as shown in No. 13, but one end of the Chain to be fixed on the lowest part of the spine.

No. 11.—INDIGESTION, VOMITING, GENERAL DEPRESSION, WANT OF APPETITE, Etc.

One end to be fixed immediately below the pit of the stomach, the other end to the spinal column, higher or lower down, as the symptoms of each case may indicate.

No. 12.—DROPSY ; GENERAL AND LOCAL.

One end on the liver, the other end down the affected limb.

No. 13.—CHOREA AND ST. VITUS DANCE, HYSTERIA AND FEMALE COMPLAINTS, AFFECTIONS OF THE KIDNEYS, BLADDER, &c.

The current to traverse the parts affected.

No. 14.—WHITE SWELLING, AND ULCERATION OF THE KNEE JOINT.

The current circulates through the posterior part of the joint, to stimulate the absorbents.

No. 15.—SCIATICA, LUMBAGO, Etc.

One end of the Chain at the bottom of the spine, the other end in the hollow of the knee ; the intermediate part being wound loosely round the affected limb.

No. 16.—RHEUMATISM IN THE KNEE JOINT.

(See figure.)

No. 17.—INDOLENT ULCERS, VARICOSE VEINS, Etc.

The ulcer is to be traversed by the current, as shown in the drawing, to restore vitality. For varicose veins, the interrupting cylinder has to be inserted, and the chain fixed as for ulcers, so that it does not touch the affected place, but sends the current through it ; when, however, there is the least inflammation, the Chain must, in this disease, be left off for some time.

Nos. 18 and 19.—WEAK ANCLES, GOUT, Etc.

In cases of gout in the toe, it is preferable to fix one end, as often as it can be done conveniently, on the toe suffering, and the other end on the inside of the ankle, the Chain, if a long one, being wound round the foot. As soon as the gout then begins to travel, it must be followed up by applying the Chain wherever the pain is felt, taking at the same time a mild aperient ; when the flying pains

are gone, and goutish pains still left in the feet and toes, apply the Chain again on the foot, and repeat the operation as above stated, until all pains have left. Gout, and particularly podagra, is a disease which can, in most cases, only be relieved safely by degrees, and, of course, under medical superintendence. The Chain will be found an eminently beneficial remedy under proper treatment.

No. 20.—DEAFNESS AND DISEASES OF THE EAR.

One end of the Chain behind the ear—action mild. Now and then place one end of a long chain, by means of the pointed sponge conductor, in the ear channel, and the other end on the opposite side of the head, and when the prickling is felt, remove one end and apply it again instantly, varying the direction of the current through the ear, on the same principles as in No. 1. Occasional mild shocks from the Chain Battery through the ears, and the adjacent parts, will greatly assist and accelerate the cures of these inveterate diseases.

No. 21.—NEURALGIA AND SHOOTING PAINS IN THE SHOULDER AND UPPER ARM.

If the pain is in the lower part of the shoulder, pass the chain over the shoulder under the arm, and to the spine, so that the Chain is lying on the painful place.

No. 22.—DISEASES OF THE SPINE AND THE NERVOUS SYSTEM; GENERAL DEBILITY AND WANT OF POWER; EPILEPSY; FITS; GENERAL NERVOUSNESS; GENERAL PARALYSIS.

One end of the Chain in the nape of the neck (for epilepsy and paralysis as high up as the hairs of the head will permit), the other end at the lowest part of the spine, so that the current circulates through the whole spinal column; animating and invigorating the whole system. In paralytic, and, generally, in deeply-seated diseases, which require prolonged treatment, it is of great benefit, in addition to the continuous influence of the portable chain occasionally (say once a day, or once every second or third day), to communicate a few shocks from the more powerful Chain Batteries (for Physicians, etc.) along the course of the affected nerves, and through the diseased parts, in order to give additional impulse to the system; however, where such batteries are not at hand, the occasional insertion into the portable Chain of an interrupting cylinder, which may be had at the depots, will greatly accelerate the cure. Shocks from the Magneto-Electric Coil Machine, formerly much in use, are highly objectionable, because the alternate currents are in opposite directions, every single shock, consequently, counteracting the influence of the foregoing; and besides this, the whole of their effects depend upon secondary or induced currents, which, in a physiological point of view, are of an entirely different character from the Primary Voltaic Galvanism. Physicians and patients are earnestly advised not to use a Chain and a Coil Machine at the same time.

UNITED STATES.

Academy of Medicine, New York.

Extract from the Records of the Committee on Chemistry and Pharmacy, to the above Academy, at the Meeting on the first of December, 1852.

COMMITTEE:

DRS. MACNEVEN, SAYRE, GARRISH, AND TAYLOR.

"In regard to the Electric-Voltaic apparatus of Mr. Pulvermacher, for medical purposes, every facility was afforded the committee, by Mr. Steinert, of testing its applicability. This instrument was found to be, essentially, an ingenious modification of the original Voltaic pile; it consists in a chain composed of a series of zinc and copper wires, arranged on bits of porous wood, by simply moistening this chain with vinegar, or acetic acid, it is prepared for action, the porous material entering into its composition, holding, as in Volta's apparatus, the requisite fluid.

"A Galvanic instrument of this form is well calculated for medical purposes, from being so readily available when required. In examining it, in reference to its advantages for ready application, the power, intensity, and permanency of action it was capable of manifesting, was also duly considered.

"The chains exhibited to the committee were of two sizes, with power proportionate to their respective dimensions. The smallest sized chain is intended where moderate power only is requisite; the larger chain is intended to supply power equal to any demand, which would probably be made for medical purposes. One of the latter size, after having been once thoroughly moistened with vinegar, and left exposed to the air, was found to be capable of deflecting the galvanometer for two hours and a half. If enclosed in oiled silk, as the chains are designed to be when worn upon the person, this action is of course prolonged. In the ordinary use of the instrument, however, the permanency of its action must be maintained by moistening the chain from time to time, say about once in fifteen or twenty minutes, with vinegar. The number of links may be readily increased by connecting two or more chains together, and the intensity of the Galvanic current proportionately increased. Four chains, of sixty links each, having been thus connected, the intensity of the electric current was found to be augmented to a degree too painful to endure.

"The most complete form of the apparatus examined is provided with a handle, containing an armature moved by clockwork, for regulating the circuit. In the less complete form of the instrument an attachment, containing a spring, is provided, which may be made to effect, though imperfectly, the same purpose.

"On the facts above stated, the committee is of opinion that the Voltaic Chain of Mr. Pulvermacher, while it presents an instrument of the requisite efficiency, has the advantage, for medical

purposes, of being more portable, more readily available, and more economical in its use, than the Electro-Galvanic instruments at present employed."

Extract from the "New York Medical Times," Vol. I, No. 12, of September, 1852.

We are glad to learn, that we are about to have introduced into our country the Portable Hydro-Electric Voltaic Chain, invented by Dr. Pulvermacher, the virtues of which have been so well tested in England for several months past, and which comes to us with such high testimonials in its favor. It is a modification of the Voltaic pile, giving us all the effects of Galvanism in a form much more convenient, and much more manageable, than the machines in ordinary use, and less apt to get out of order. It has the very desirable property of creating a continuous uninterrupted current of electricity of moderate tension, and always in one direction.

The inventor received the unanimous thanks of the French Academy of Medicine; and the practical value of the instrument is attested by Drs. Golding Bird, Pereira, and many others of the first medical men in London. An agency is about to be established in this city, the particulars of which will be made known by means of circulars and advertisements, when the arrangements are completed for the requisite supply of the instruments. In the meantime, the merits of the article will be tested at the hospitals and in private practice, as cases proper for its use may present themselves.

[From the New York Reformer, 23d October, 1853.]

HINTS ABOUT ELECTRICITY.—At this season of the year, being productive of so many and various diseases, we can not but direct the attention of our readers to the Patent Hydro-electric Chains, introduced into our country by Mr. J. Steinert, 568 Broadway, being the very same chains which the Emperor of the French lately sent over to England in order to try their salutary effect in cases of Cholera, and similar diseases arising from a want of electricity in the atmosphere. We are not at all surprised to see by some of our English cotemporaries that the results of these experiments has been very satisfactory, and that the Hydro-Electric chain may become as a safeguard and as a grand specific against the great number of diseases resulting from the sudden changes in the electric state of the atmosphere. We have even heard it asserted by several well known physicians, that they have been worn with astonishing benefit in the Southern States during the late disastrous ravages of the yellow fever. It may be chance, but it is a fact, that of all persons who have worn them during the epidemic in New Orleans and other places, not a single one has fallen a victim to that scourge. We certainly incline to the opinion that their constant action on the skin and body neutralizes the hurtful effect of a miasmatic atmosphere! At all events we think it worth while that the profession take the subject in hand and make it an object of serious investigation!

[Extract from the Esculapian, May 1853.]

PULVERMACHER-S HYDRO-ELECTRIC CHAINS.

We have had one of these instruments for some time, and have made use of it in a number of cases, and thus far it has fully sustained the guarantee of Mr. Steinert, the agent for this country. In tooth-ache we have had occasion to apply it upon ourselves, and in less than a minute, the pain had entirely ceased, and has never troubled us since. In other cases it has operated equally well.

There is no doubt but that this galvanic agent is to become a valuable auxiliary to other means in the treatment of disease. We hope for an opportunity to make use of it in some more serious disease, and if satisfactory, we shall be glad to award it all due merit.

[Extract from "Dispatch," May 22, 1853.]

"At a meeting of the Philadelphia Franklin Institute last Friday night, Mr. Steinert, of New-York, introduced by Dr. Rand, delivered a short address in explanation of his Hydro-Electric Chains, to the satisfaction of all present. On the opposition of a member, that chains imported from London would not deflect the astatic needle, Mr. Steinert gave ocular demonstration to the effect, that a single link of the smallest chains, sold by him, makes the needle of the common Galvanometer swing right round in a circle," etc. etc. etc.

Letter from VALENTINE MOTT, M.D., L.L.D., Emeritus Professor of Surgery and Surgical Anatomy of the faculty of Medicine at New York, Honorary Fellow of King's and Queen's College, at Dublin (Ireland,) etc.

NEW YORK, October 12th, 1852.

MR. J. STEINERT:

Dear Sir,—I have been much pleased with the Hydro-Electric Chains of Pulvermacher, which you have been so polite as to furnish me. They are a very ingenious and beautiful arrangement of the galvanic principle, and I have no doubt will lead many medical practitioners to use this powerful agent from their neatness and convenience. They are so portable, and at the same time powerful, that many will resort to them, and indeed be amused by them, who would be alarmed at a more complicated apparatus.

I think it may become an important remedial agent, and its efficacy may be greatly increased if used in the manner of galvano-puncture.

You have my best wishes for its successful introduction.

Your's very respectfully,
V. MOTT.

I have seen with much satisfaction the application of the Hydro-Electric Chain of Pulvermacher. The neatness of its construction, and the facility with which so important a therapeutic agent as the electric current can be administered, render this modification of the voltaic pile highly eligible and convenient.

In amaurosis, neuralgia, and other numerous maladies I deem its use highly expedient.

J. M. CARNOCHAN, M.D.

Professor of Surgery in the New York Medical College,
Surgeon to the State Emigrant's Hospital, etc.

NEW YORK, 29th Oct., 1852.

I have employed Pulvermacher's Hydro-Electric Chain, lately introduced amongst us by Mr. J. Steinert, and am satisfied that they constitute the most effective and uniformly available apparatus for the therapeutic application of electro-galvanism of which I have any knowledge.

WM. H. VAN BUREN, M.D.

Surgeon to the Bellevue and St. Vincent's Hospitals, Professor
of Anatomy in the University at New York, etc.

NEW YORK, 15th Oct., 1852.

NEW YORK, Oct. 13th, 1852.

I have made trial of Pulvermacher's Hydro-Electric Chains, and regard them as a very convenient and efficient contrivance for the application of electricity in the treatment of disease. The portability of the instrument and the facility of its application are such as to render it superior, in my opinion, to any other electrical apparatus employed for medical purposes.

ALFRED C. POST, M.D.,

Professor of Surgery in the University of New York.

MR. J. STEINERT:

SIR—The Hydro-Electric Voltaic Chain of Mr. Pulvermacher has been used at the New York Hospital in cases under my direction with very satisfactory results, and I consider it an efficient and particularly convenient and eligible mode of applying this therapeutic agent. Yours, etc.,

H. B. BULKLEY, M.D.,

Physician to New York Hospital.

NEW YORK, Oct. 19th, 1852.

I have known the Hydro-Electric Chains of Pulvermacher used in cases of paralysis, with very great benefit to the patient, and am so favorably impressed with their good effects, that I shall continue their employment where agents of this kind are indicated.

Their portability and ease of application are great recommendations.

JOHN J. METCALFE, M.D., 735 Broadway,

Physician to Bellevue Hospital.

October 29th, 1852.

I have employed Pulvermacher's Electric apparatus in my practice, and esteem it superior in all respects to any other now in use.

BROOKLYN, Oct. 15th, 1852.

DANIEL AYRES, M.D.,

Surgeon to Brooklyn City Hospital.

I have used the Electric Chain of Mr. J. Steinert, and consider them the most convenient form of medical electricity; they are effective, easy of application, and very convenient for the physician and patient.

WILLIAMSBURG, 452 Grand Street.

F. M. LORETTE, M.D.

Similar highly commendatory testimonials have been received from many other members of the profession, who have experienced and tested the effects of the Chain, as, for instance, from:

E. H. VAN DEUSEN, M.D., Physician, New York City Hospital.

THOMAS F. COCK, M.D., Physician, Bellevue Hospital.

ULRIC PALMEDO, M.D., Brooklyn.

H. N. WILHELM, M.D., New York.

GEORGE A. PETERS, M.D., New York.

Etc. etc. etc.

MR. J. STEINERT:

PHILADELPHIA, 19th April, 1853.

DEAR SIR—I take great pleasure in stating that Pulvermacher's Electric Chain Battery is the most portable apparatus for medical purposes, and has in this respect decided advantages over all others in its application.

Yours,

G. MOEHRING, M.D.

FREDERICKSBURG, Va., 16th May, 1853.

EXTRACT.—Dr B. R. Wellford, late president of the American Medical Association, while in your city, had a conversation with some of his medical friends, on the subject of Pulvermacher's Hydro-Electric Voltaic Chains, the information received of them, on the subject, especially from Dr. Jackson, of Philadelphia, was of so favorable a character, etc., etc., etc.

(Signed)

JAS. COOKE & CO.

WASHINGTON, D. C., May 15, 1853.

DEAR SIR—I have convinced myself of the curative power of Pulvermacher's Hydro-Electric Chain in a case of obstinate Amenorrhoea, and I have no doubt that they will likewise prove successful in a class of diseases, etc.

L. SCHUCKING, M. D.

AUBURN, N. Y., March 1st, 1853.

DEAR SIR—Since my return I have used the apparatus I purchased of you, successfully, etc. The cases are as follows:—Carditis, Tendency to Vertigo, and Symptoms of Paralysis. Send immediately by Well's Express, with invoice.

J. M. MORRIS, M. D.

[Extract from a letter of Dr. W. H. Jarvis, St. Paul, Minnesota, August 23d, 1853.]

I am satisfied they are invaluable. In my own case, I have had no returns of the symptoms. Previous to wearing the chain, the slightest atmospheric change was enough to cripple me. But now I can expose myself with impunity to every kind of weather. I can fish, hunt, and wade ALL DAY through swamps without suffering, etc.

[Extract from a letter of Dr. Moschzisker, of Baltimore, to Messrs. Chas. & Wm. Caspari, in Baltimore, Md.]

I have used the large Chain Battery, in combination with some slight medical treatment, in several cases of Deafness (particularly in Nervous Deafness of several years standing), and also in Weak Eyes, which enables me to recommend them to the public.

MR. J. STEINERT :

AUGUSTA, Me., October 31, 1853.

SIR—Yours of the 18th was duly received with labels for your fluid. I have but six of your chains on hand, and if you should send me some of them, please to send me a lot of your circulars. The CHAINS HAVE GIVEN PERFECT SATISFACTION, where I have sold them.

Respectfully, yours,
WILLIAM BLACK.

PITTSFIELD, Mass., Nov. 2, 1853.

We find more ready sales for the thirty links than for eighteen, and have no doubt that a large business can be done with them. IN NO CASE do they fail to please, and in some cases we know of, they are worn with decided beneficial results, etc.

ALLEN & BRO.

ENGLAND.

48 RUSSELL SQUARE, 29th August, 1851.

The ingenious modification of Volta's Pile, invented by Dr. Pulvermacher, was placed in my hands several months ago, and I have had the opportunity of testing its value. This apparatus is capable of producing all the physiological effects of the well known Galvanic Battery, each link of the chain corresponding to a cell of the latter very cumbersome, and (for medical purposes), inconvenient machine. It is easily excited, and its power is very persistent. With careful management it is not likely to get out of order.

We have in this ingenious invention that which has long been a desideratum, viz.—An apparatus of the smallest possible bulk capable of evolving a continuous or uninterrupted current of Electricity of moderate tension, and always in one direction, without the expense, bulk, and great inconvenience of the Cruikshank Trough or other Cell arrangements. I can hardly recommend Dr. Pulvermacher's invention too strongly to the notice of my medical brethren.

GOLDING BIRD, A.M., M.D., F.R.S.,
Fellow of the Royal College of Physicians, and Lecturer on
Therapeutics, at Guy's Hospital.

FINSBURY SQUARE, Sept. 19th, 1851.

I have great pleasure in stating, that I consider Pulvermacher's Patent Portable Hydro-Electric Chain Batteries to be a very convenient and effective form of a Voltaic Apparatus for medical purposes.

JONATH. PEREIRA, M.D.
Fellow R.C.P., Physician to London Hospital.

[From the Physician of her highness the Duchess of Norfolk.]

The Duchess of Norfolk (having received several Chains before) wishes Mr. Meinig to send one of the strongest Hydro-Electric Chains, and an Interrupting Cylinder, to Lady G. S. S., P., Romsey, Hants; and she wishes to have herself another small one, directed to Arundel Castle, Sussex.

[Similar highly commendatory testimonials have been received from the following eminent members of the Profession, who have experienced and tested the effects of the Chain.]

Dr. G. A. Mantell, Fellow of Royal Society, L.L.D., and Fellow of Royal College of Surgeons; Dr. W. W. Gull, M.D., Fellow of the Royal College of Physicians, and Professor of Physiology at Guy's Hospital; Professor Beauchamp Knowles, Fellow of the Royal College of Surgeons, Surgeon to Queen's College Hospital, and Professor of Materia Medica, &c., in Queen's College, Birmingham; Dr. A. P. Stewart, M.D., M.R.C.P., London, Fellow R.M.C.S., Middlesex Hospital; W. Wickenden, Esq., M.R.C.S., Fellow of the Geological Society; J. T. Sheppard, Esq., Fellow R.C.S., Senior Surgeon to the Worcester Infirmary, Worcester; Dr. J. H. Ransom, M.D., Lond., Nottingham; Adolphus Barnett, Esq., M.B., London, M.R.C.S., &c., Poplar; Dr. T. J. Vallance, Esq., M.D., M.R.C.S., &c., &c., Stratford; J. T. Vallance, Jun., Esq., M.R.C.S., &c., &c., Eng., Stratford; Dr. Hyde Salter, M.B., House Physician to King's College Hospital; Charles Daukes, Esq., M.R.C.S., House Surgeon to London Hospital; William Wilton, Esq., M.R.C.S., L.S.A., formerly Senior Surgeon to Brighton Lying-in Institution, Brighton; T. R. Simonds, Esq., M.R.C.S., L.S.A., Brighton; John Smith, Esq., M.R.C.S., L.S.A., London, &c., Burgh, Lincolnshire; Francis Berrington, Esq., M.R.C.S., L.S.A., London; Sir William Story, M.R.C.S., Knight of the Order of St. Ferdinand, and late Surgeon to the Forces, Mile End; J. W. Tatton, Esq., University College; C. J. Blackman, Esq., M.R.C.S., London; J. L. Levison, Esq., Surgeon, Brighton; C. H. Gamble, Esq., M.R.C.S., L.A.C., Reading Dispensary; George C. Miller, Esq., M.R.C.S., London Hospital; Dr. Thomas Ansell, M.D., M.R.C.S., Eng., L.S.A., Bow; Th. Woodford, Esq., M.R.C.S., London; Ch. W. H. Howell, Esq., M.R.C.S., Eng., L.S.A., Stratford; George Evans, Esq., House Surgeon to the Westminster Hospital; Professor Geo. H. Backhoffer, of the Royal Polytechnic Institution; P. L. Smyth, Esq., L.S.A., Bow; Nathaniel Ward, Esq., Fellow R.C.S., Surgeon to London Hospital; H. V. Garman, Esq.,

L.S.A., Surgeon to the K Division of Police, London; Jos. R. Cooper, Esq., M.R.C.S., Eng., L.A.C., London; Richard Hudson Courtenay, Esq., M.R.C.S., Surgeon Accoucheur to the Islington Lying-in Hospital, formerly Inspector of Hospitals for Central Board of Health in Ireland; Thomas D. Griffiths, Esq., M.R.C.S.E., Amlwch, Anglesea; Ph. H. Smyth, Esq., Surgeon, Devonshire House; C. Massingberd, Esq., M.R.C.S., Holyhead; R. Lloyd, Esq., M.R.C.S., Dolgelly, N Wales; F. Gooden, Esq., M.R.C.S., L.S.A., Maidenhead; E H Kingley, Esq., M.R.C.S., Tottenham Park, Wilts; Silvanus Longman, Surgeon, Milborne Port; Dr Henry Johnson, M.D., Senior Physician to the Salop Infirmary; John H Bywater, Esq., Surgeon, L.S.A., Knottingley, Yorkshire; Dr A. Graham, M.D., Retired Superintending Surgeon to the Bombay Army, Ramsgate; John Poole, Esq., Surgeon, Oxford-street, Liverpool; W Kendall, Esq., Surgeon, Budleigh, Devon; Arthur C Morse, Esq., M.R.C.S., L.A.C., Crewkerne, Somerset; Ch Sylvester, Esq., M.R.C.S., Cowbridge, Glamorgan; Thomas Newham, Esq., House Surgeon to the Chichester Infirmary; Dr J B Thompson, M.D., 5, Suffolk-place, Pall Mall East, London; Dr S T Evans, M.D., Physician to the Newmarket-on-Fergus Dispensary, &c Dr Avery Roberts, M.D., Brighton; Dr W Denner, M.D., Gravel Hill House, Littleworth, near Stroud, Gloucestershire; James R. Whyte, Esq., M.R.C.S., Launcells, Cornwall.

[From the following Hospitals highly favorable Reports have been received:—

Guy's Hospital, Southwark—London Hospital, London—Universisy College Hospital, London—King's College Hospital, Westminster—St. Bartholomew's Hospital, London—Royal Free Hospital, London—Charing Cross Hospital, Westminster—German Hospital, Dalston—Allgemeine Krankenhaus (the principal Hospital,) Vienna—Hospital of Wieden, near Vienna—Hospital Bougeon, at Paris—Hospital St. Louis, at Paris, &c, &c.

[Favorably reported by—

The Royal College of Physicians in London, in the meeting of 28th June, 1851—The Royal College of Surgeons in London, in the meeting of 2nd July, 1851—The Royal British Association, in the meeting at Ipswich, 8th July, 1851—The Provincial Medical and Surgical Association, in the meeting at Brighton, on the 13th and 14th August, 1851—The Pharmaceutical Society, London, in the meeting, the 3rd January, 1851.

FRANCE.

(TRANSLATION.)

[Extract of a report made to the National Academy of Medicine, at Paris, at its meeting on the 1st of April, 1851. Commissioners: Messieurs Berard, Bouvier, Gaultier de Claubry, Gueneau de Mussy, Longet, Poissenille. Reporter: Monsieur Soubeyran.

EXPERIENCES SCIENTIFIQUES.—“The Voltaic Chains of Mr. Pulvermacher, are really a most wonderful apparatus. It is astonishing to see these little piles, with pole plates and ribbons beautifully arranged, and adapting themselves exactly to the form of the body, capable of producing—under this small volume—the most surprising effects.

“The Commission begs to propose to the Academy to address their thanks to Mr. Pulvermacher, for his most interesting communication.”—Bulletin de l'Academie, Tome XVI, No. 13.

[Short explanation added to the report by Dr. Bouvier, one of the members of the Commission on the Chain Batteries for Doctors of Medicine, constructed on the same principle as the portable Chains.

“They unite henceforward two advantages, which no other apparatus does possess until now; they are more portable and cheaper, two indispensable conditions in an apparatus of this description, in order to make the application of electricity, as yet so little known, more general, and to a certain degree popular; which is certainly very desirable in the interest of patients, as well as of the profession itself. In this respect the Chains of Mr. Pulvermacher will have a great future, so much more as they are constantly being improved, and as new modifications may still add to their perfection, and to their utility in the treatment of disease.” (Adopted.)

ACADEMIE NATIONALE DE MEDICINE:

PARIS, 3rd April, 1851.

[The Perpetual Secretary of the Academy to Dr. Pulvermacher, of Vienna (Austria.)

SIR,—I am happy to inform you that the Commission, elected by the Academy to examine your Voltaic Chains, made its report on Tuesday last, to the Academy, through the medium of Monsieur Soubeyran.

The Academy, Sir, after having heard the reading of the report, offers you, through me, their best thanks for your highly interesting communication.

(Signed,) DUBOIS.

The Hydro Electric Voltaic Chains are at present before the Academie des Sciences, which has elected a special Committee (Messieurs Bequerel and Pouillet) to try the Chain in chemical and physical experiments.

[Extract of a letter of Ad: Amedee Latour, M.D., at Paris, published in the “Union Medicale,” Tome VI., page 32.

“The Voltaic Pile will change the whole world, said Napoleon the First, and the present Napoleon promises a great reward to its promotor; thus it is with great satisfaction that the followers of *Æscu-*

lap have observed that a premium of 50,000 francs will be awarded to the perfector of electricity, and that its application for medical practice is amongst the conditions to be fulfilled by the competitors. The question of Electric Apparatus, their convenience, and price, is an important question for gentlemen of the profession. A German professor of Physics, Mr. Pulvermacher, appears to me to have solved this question, by his apparatus, through which the application of the Voltaic Pile can be made familiar, and of a precious advantage."

[Extract of a letter of Emmanuel Roche, M.D., Paris, published in the "Revue Clinique."]

"We freely acknowledge that these Chains are an inexhaustible source of electricity. We really must confess that we have had results of them which touch the marvellous; but it is necessary that our brethren in science, practice and judge for themselves.

"The invention of Mr. Pulvermacher is a real and considerable progress. We can certify that it is a great point obtained in science. We cannot but express our desire, that our brethren might engage and occupy themselves with this mysterious science, which certainly will accomplish still the most curious, and perhaps the most useful, discoveries which will be open for human speculation. And in their name, we advise the inventor to sell his apparatus at the very lowest price, and that he may bear in mind that the economical application of electricity in the medical practice, is one condition for the premium of 50,000 francs, offered by our government to all Savants of the world."

[Extract of a letter of Monsieur Sainte Preuae, published in the journal "L'Industrie," No. 12.

"The success of Mr. Pulvermacher's Chains is founded on the real and evident value of their apparatus, as well as on their low price, comparing them to the value of other medical electric apparatus—we say; and, indeed, the experiments daily made with them in Paris, to any one who visits the stores of Mr. Meinig, who is sole agent here for this invention, permit the most ignorant person to convince himself that their apparatus develops, quickly, sufficient electricity, and abundantly too, to produce in the human body those continuous commotions, quick and vibrating, which are vindicated by the medical profession. After having witnessed these experiments, every one will be convinced of the possibility of a happy medical employment of this small and ingenious contrivance."

[Extract of a letter of M. F. Rouboux, M. D., on the Hydro-Electric Chains, published in the "L'Illustration de Paris."

"By the simple arrangement (of diminishing or multiplying the number of links, or the power of the acid) the intensity of the Galvanism may be regulated to any degree, which is of the highest importance in medical practice. A further advantage of these Chains is that they adapt themselves to any part of the body, so that the influence of electricity may be limited to any suffering part."

GERMANY:

Austria, Prussia, Saxony, &c., &c.,

I, the undersigned, do hereby certify, that the Hydro-Electric Chains of Mr. Pulvermacher may be applied with the greatest advantage in ALL cases wherever electricity may be indicated.

OPPÖLZER, M. D.,
Physician to the Court, Head Physician to the Principal Hospital at
Vienna (Allgemeines Krankenhaus) &c., &c.

The trials which were made by the undersigned, during several months, with the Hydro-Electric Chains of Mr. Pulvermacher, in those cases of Chronic Rheumatism, as well as in those paralytic forms of disease originating in them, have sufficiently shown that this effect on the human organization is not only very invigorating, but that their curative power was also a corresponding one.

JAEGER, M. D.,
Professor and Directing Physician in the Clinique for
Diseases of the Eyes, in Vienna, &c., &c.,

Similar testimonials have been signed by:

Prof. Pieschel, Prof. Merbach, Councillor of Medicine, Muller, Prof. Gunther, Dr. H. E. Richter, Dr. Heidenreich, Dr. Schmalz, &c., &c.

EXTRACTS.

[Dr. Heidenreich in his reports on the progress in Therapeutical Physics.]

"J. L. Pulvermacher, at Vienna (Mariahilf, No. 37), sells Hydro-Electric Chains which really produce a great deal of electricity. * * *

"I have succeeded with these Chains in deflecting the needle of the Galvanometer, in decomposing water, in the solution of (Jodkalium), in the reduction of the nitrate of protozoyde of Mercury, and oxyde of silver, in obtaining contraction of the prepared frog's leg, and on my own forehead I observed the prickling sensation as a result of these Chains. Being in this manner physical and physiological real Electro-Motors, these Chains may easily be brought into use in Therapeutic application. Indeed, these Chains excited at the place where the current is interrupted by the glass cylinder, and passes through the body, red spots like small blisters, and showed decided effect in cases of Rheumatism, where I applied it," &c., &c., &c.

[Extract from the "Feuilleton der deutschen (German) Clinique," of the 13th March, 1852.]

[Tested together with Drs. Jahn, Dietzel, Schmitt, professors of Physics and Mechanics, at the University and Polytechnic Institution at Zittau (Saxony), by Dr. Kuchenmeister, at Zittau.]

"With regard to the effects of Pulvermacher's Hydro-Electric Chains, we may say of them:

1. That even the smallest Chains of \$1, consisting of six spiral pairs, decompose water in a small apparatus; shocks are not felt by them. Taste very energetic, with prickling sensation. The Astic Needle turns right round, and turns itself on its axis several times.

2. The said effects increase with the size of the apparatus; they produce at last (taking large Chains), insupportable contractions on opening and perfecting the electric circle. If a Portable Chain is put to the temples, the well known apparition of light is observed.

(They then continue pointing out to professional gentlemen a great many cases in which the Hydro-Electric Chains may be employed with evident advantage) and conclude:

I should be glad indeed, if these fines would tend to bring Pulvermacher's Chains more in general use.

[Extract from the Central Medical Times (Medicinische Central Zeitung), of 21st of April, 1852, by Dr. L. Posner, Editor of the Central Medical Times.]

"These demonstrations convinced everybody that Pulvermacher's Chains offered material advantages for medical practice, and that they may be employed for the production of the mildest or of the strongest form of electricity.

"The persons who were present had an opportunity of convincing themselves of the efficiency of the Chains by the touch, as well as by the Galvanometer (which were perceptible already with a single element, if brought in contact with the hand,) &c., &c., &c.

SIMILAR CORRESPONDENCE MAY BE REFERRED TO—

IN ENGLAND.—Medical Times, Times, Morning Chronicle, Daily News, Lancet, Mining Journal, Civil Engineer's Journal, London Journal, Chemical Records, Agricultural Magazine, Brighton Herald, &c., &c.

IN FRANCE.—Gazette de Hopitiaux, Journal des Debats, Presse, Union Medicale, L'Industrie, Revue Clinique, &c., &c.

IN GERMANY.—Constitutionelle Zeitung, Spensersche Zeitung, In der Zeit, Feuilleton der Deutschen Clinique, Medizinische Central Zeitung, &c., &c.

IN THE UNITED STATES.—The "Press," wherever the Hydro-Electric Voltaic Chain has been known, has unanimously pronounced it the most important invention of the day, and have enumerated a great number of cases, where cures have been effected. See the Sunday Dispatch, Atlas, Courier, Times, Wall Street Journal, Baltimore Clipper, Criminal Zeitung, Parker's Journal, Advocate and Register, National Police Gazette, Schem, Staats Zeitung, Mercury, Pick, Democrat, Courier des Etats Unis, Dutchman, Williamsburg Daily Times, &c., &c. Extracts from these papers and others will shortly be published.

Extract from "The Medical Times" of November 15th, 1851.

[Cases of Rheumatism and Local Paralysis, treated by Pulvermacher's Chain Battery. Reported by T. J. Vallance, M.R.C.S., &c.]

In introducing the following cases to the notice of the Profession, I may observe that they are not picked ones, but are simply taken as they occurred; also, that they have been treated ONLY by electricity; the instrument used being Pulvermacher's Chain Battery. Whether the superior efficacy of this Battery in rheumatic and local paralysis over the Electro-Magnetic Machines, is due to the circumstance of the current being primary, or to the fact that the current is constantly in one direction, is a question I shall at present leave; but the cases I have treated appear to me very striking in the rapidity with which they have been cured, as compared with any that I have found recorded to have been treated by galvanism, evolved from other sources.

CASE FIRST.

Alfred Cooke, age 26, a gardener, was attacked on the 4th of July, 1851, with acute rheumatic fever. He was treated in the usual manner, and was confined to his bed about a fortnight after, suffering much in the muscles of his extremities and back. After he was able to leave his bed, he had great PAIN IN HIS SHOULDERS, WRISTS, AND LOINS, increased by the slightest motion, so that he was incapable of dressing or feeding himself. He continued in this condition up to the 29th of August, (nearly nine weeks,) during which period he was treated by tonics, occasional doses of Dover's powder, and turpentine frictions; these, however, had no apparent result.

On the 29th I found his arms hanging useless by his sides; the right was somewhat the worst; it felt cold, the skin tense and hard, and the MUSCLES much ATROPHIED; the hand he was unable to close. The metacarpal JOINT of the INDEX FINGER was much SWOLLEN; it felt hard, and was very painful on pressure, or on any attempt to bend it. Thinking this a fair case for the application of galvanism, I resolved to try the Chain Battery, and accordingly passed a current from one hand to the other. The first effect produced was considerable faintness; the man, however, quickly rallied, and ten minutes having elapsed, I found he could CLOSE HIS HAND perfectly, that the SWELLING WAS CONSIDERABLY DIMINISHED, and that ALL PAIN WAS GONE. The same evening he undressed himself without assistance, etc., etc. following three distinct cases with treatment by the chains.

T. J. VALLANCE, M.R.C.S., &c.

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